PB81-164618

UNAMAP (Version 4), User's Network for Applied Modeling of Air Pollution: Test Data Output

(U.S.) Environmental Sciences Research Lab.
Research Triangle Park, NC

Feb 71

U.S. Department of Commerce
National Technical Information Service
NTIS

50272-101

REPORT DOCUMENTATION PAGE

1. REPORT NO. EPA/DE-81/001a

2.

3. PB81-164618

4. Title and Subtitle

UNAMAP Ver. 4:Test Data Output

5. Report Date February 1971

6.

7. Author(s)

8. Performing Organization Rept. No.

9. Performing Organization Name and Address

EPA
Office of Rsch. & Development
Envt'l Sci. Rsch Lab.
Meteorology & Assessment
Environ. Oper. Br.

Mail Drop 80, EPA
Research Triangle Park,
NC 27711

10. Project/Task/Work Unit No.

11. Contract(C) or Grant(G) No.
(C)
(G)

12. Sponsoring Organization Name and Address

13. Type of Report & Period Covered

14.

15. Supplementary Notes

For magnetic tape see PB81 164600

16. Abstract (Limit: 200 words)

These 258 pages of computer printout represent the output that results from applying test data to UNAMAP Ver 4. dispersion models. The test data is included in each model file on the UNAMAP ver. 4. An Index relating page number of the printout to specific models is given as part of the UNAMAP description (File 1 of the UNAMAP tape).

17. Document Analysis a. Descriptors

b. Identifiers/Open-Ended Terms

c. COSATI Field/Group

REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U.S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

18. Availability Statement

19. Security Class (This Report) UNCLASSIFIED

21. No. of Pages 261

20. Security Class (This Page) UNCLASSIFIED

22. Price

NOTICE

THIS DOCUMENT HAS BEEN REPRODUCED FROM THE BEST COPY FURNISHED US BY THE SPONSORING AGENCY. ALTHOUGH IT IS RECOGNIZED THAT CERTAIN PORTIONS ARE ILLEGIBLE, IT IS BEING RELEASED IN THE INTEREST OF MAKING AVAILABLE AS MUCH INFORMATION AS POSSIBLE.

PAL (VERSION 80080)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 3. MODELS PROPOSED SEP80 FOR 81 GUIDELINES.
IN UNAMAP (VERSION 4) DEC 80
SOURCE: FILE 2 ON UNAMAP MAGNETIC TAPE FROM NTIS.

EXAMPLE PROBLEM FOR PAL VERSION 80080

PINA = .02000 PINL = .02000

	SOURCE INCLUDED	WIND INCREASE WITH HEIGHT
POINT	YES	NO
AREA	YES	NO
HORIZONTAL LINE SOURCE	YES	NO
CURVE PATH SOURCE	YES	NO
SPECIAL LINE SOURCE	YES	NO
SPECIAL PATH SOURCE	NO	NO

AVERAGE YES DIURNAL NO HEIGHT AT WIND SPEED 5.0 METERS

WIND PROFILE EXPONENTS FOR STABILITY CLASSES (A-F) .15 .15 .20 .25 .40 .60

POINT SOURCES

NO.	POINT SOURCE STRENGTH (G/SEC)	PHYSICAL HEIGHT (METERS)	STACK TEMP (DEG-K)	STACK GAS VELOCITY (M/SEC)	STACK DIAMETER (METERS)	VOLUME FLOW (CU M/SEC)	COORDINATES EAST (KM)	COORDINATES NORTH (KM)	INITIAL SIGMAS Y (M)	INITIAL SIGMAS Q (M)
1	5.00	10.0	320.0	.00	.00	12.00	4.260	3.140	1.0	1.0

AREA SOURCES*

NO.	AREA SOURCE STRENGTH (G/SEC-M**2)	AREA SOURCE HEIGHT (METERS)	COORDINATES SW-CORNER EAST (KM)	COORDINATES SW-CORNER NORTH (KM)	AREA SIZE EAST-WEST (KM)	AREA SIZE NORTH-SOUTH (KM)
1	.00020000	.0	4.200	2.600	.600	.300
2	-.00020000	.0	4.200	2.800	.200	.400

HORIZONTAL LINE SOURCES*

NO.	LINE SOURCE STRENGTH	LINE SOURCE HEIGHT	COORDINATES POINT A	COORDINATES POINT B	INITIAL SIGMAS	NO.	TOTAL	MEDIAN

	STRENGTH (G/SEC-M)	HEIGHT (METERS)	EAST (KM)	NORTH (KM)	EAST (KM)	NORTH (KM)	Y (M)	Z (M)	OF LANES	WIDTH (METERS)	WIDTH (METERS)
1	.00100000	.0	.200	.506	4.000	.506	3.00	1.50	4.	16.0	.0
2	.00200000	.0	.200	.502	4.000	.502	3.00	1.50			
3	.00090000	.0	.200	.498	4.000	.498	3.00	1.50			
4	.00100000	.0	.200	.494	4.000	.494	3.00	1.50			
5	.00180000	.0	5.445	1.303	7.295	4.003	3.00	1.50	4.	16.0	.0
6	.00180000	.0	5.448	1.301	7.298	4.001	3.00	1.50			
7	.00090000	.0	5.452	1.299	7.302	3.999	3.00	1.50			
8	.00070000	.0	5.455	1.297	7.305	3.997	3.00	1.50			
9	.00200000	.0	4.800	3.002	6.520	3.002	3.00	1.50	2.	8.0	.0
10	.00200000	.0	4.800	2.998	6.520	2.998	3.00	1.50			

* *C U R V E D H O R I Z O N A L P A T H S O U R C E S * * *

NO.	PATH SOURCE STRENGTH (G/SEC-M)	PATH SOURCE HEIGHT (METERS)	COORDINATES POINT A EAST (KM)	POINT A NORTH (KM)	POINT B EAST (KM)	POINT B NORTH (KM)	POINT C EAST (KM)	POINT C NORTH (KM)	INITIAL SIGMAS Y (M)	INITIAL SIGMAS Z (M)	NO. OF LANES	TOTAL WIDTH (METERS)	MEDIAN WIDTH (METERS)
1	.00100000	.000	4.000	.500	4.600	.580	5.450	1.300	3.00	1.50	4	16.00	.00

SOURCE STRENGTH FOR THE REMAINING LANES

LANE	SOURCE STRENGTH
2	.00200000
3	.00090000
4	.00100000

* *S L A N T O R V E R T I C A L L I N E S O U R C E S * * *

NO.	SOURCE STRENGTH (G/SEC)	SOURCE HEIGHT (METERS) POINT A	SOURCE HEIGHT (METERS) POINT B	POINT A EAST (KM)	POINT A NORTH (KM)	POINT B EAST (KM)	POINT B NORTH (KM)	INITIAL SPEED (M/SEC)	FINAL SPEED (M/SEC)	INITIAL SIGMAS Y (M)	INITIAL SIGMAS Z (M)	TRAFFIC VOLUME (VEH/HR)	VEH. SIZE (M)
1	30.00	3.0	3.0	3.200	4.500	6.400	4.500	.000	80.000	15.00	6.00	60.	30.0
2	10.00	3.0	3.0	.800	1.500	4.000	1.500	80.000	.000	15.00	6.00	60.	30.0

* *R E C E P T O R S * * *

NO.	RREC(KM)	SREC(KM)	Z (M)
1	4.600	4.200	1.0
2	4.600	3.600	1.0
3	4.600	2.400	1.0
4	4.600	1.200	1.0
5	4.600	.200	1.0

* *M E T E O R O L O G Y * * *

NO.	THETA(DEG)	U (M/SEC)	KST	HL (M)	T (DEG-K)	DIURNAL VARIATIONS (FRACTIONS OF GIVEN Q)					
						POINT	AREA	HORIZONAL LINE	CURVED PATH	SPECIAL LINE	SPECIAL PATH
1.	0.	2.0	4	500.	285.	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
2.	350.	2.5	3	900.	289.	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
3.	345.	3.0	2	1100.	294.	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

** CONCENTRATIONS AT RECEPTORS ***

CONCENTRATIONS IN GRAMS PER CUBIC METER

HOUR	RECEPTOR NO.	RECEPTOR COORDINATES EAST	NORTH	HEIGHT	FROM POINTS	FROM AREAS	FROM HORIZONAL LINES	FROM CURVED PATHS	FROM SPECIAL LINES	FROM SPECIAL PATHS	TOTAL
1	1	4.600	4.200	1.00	.000	.000	.000	.000	2.271-004	.000	2.271-004
1	2	4.600	3.600	1.00	.000	.000	.000	.000	1.147-004	.000	1.147-004
1	3	4.600	2.400	1.00	1.233-013	3.455-003	3.172-010	.000	7.021-005	.000	3.526-003
1	4	4.600	1.200	1.00	2.274-006	1.286-003	1.531-006	.000	5.379-005	.000	1.344-003
1	5	4.600	.200	1.00	9.673-006	8.324-004	3.237-006	1.336-004	4.635-005	.000	1.025-003

** CONCENTRATIONS AT RECEPTORS ***

CONCENTRATIONS IN GRAMS PER CUBIC METER

HOUR	RECEPTOR NO.	RECEPTOR COORDINATES EAST	NORTH	HEIGHT	FROM POINTS	FROM AREAS	FROM HORIZONAL LINES	FROM CURVED PATHS	FROM SPECIAL LINES	FROM SPECIAL PATHS	TOTAL
2	1	4.600	4.200	1.00	.000	.000	.000	.000	1.219-004	.000	1.219-004
2	2	4.600	3.600	1.00	.000	.000	.000	.000	5.369-005	.000	5.369-005
2	3	4.600	2.400	1.00	5.868-006	1.510-003	2.315-011	.000	2.889-005	.000	1.545-003
2	4	4.600	1.200	1.00	2.797-005	2.387-004	1.870-008	.000	2.329-005	.000	2.900-004
2	5	4.600	.200	1.00	1.119-005	8.272-005	3.226-008	6.217-005	2.205-005	.000	1.782-004

** CONCENTRATIONS AT RECEPTORS ***

CONCENTRATIONS IN GRAMS PER CUBIC METER

HOUR	RECEPTOR NO.	RECEPTOR COORDINATES EAST	NORTH	HEIGHT	FROM POINTS	FROM AREAS	FROM HORIZONAL LINES	FROM CURVED PATHS	FROM SPECIAL LINES	FROM SPECIAL PATHS	TOTAL
3	1	4.600	4.200	1.00	.000	.000	.000	.000	7.320-005	.000	7.320-005
3	2	4.600	3.600	1.00	.000	.000	.000	.000	2.682-005	.000	2.682-005
3	3	4.600	2.400	1.00	2.570-005	7.042-004	7.513-010	.000	1.405-005	.000	7.440-004
3	4	4.600	1.200	1.00	6.731-006	5.882-005	1.995-008	.000	1.018-005	.000	7.575-005
3	5	4.600	.200	1.00	2.070-006	1.713-005	2.037-008	3.486-005	1.090-005	.000	6.498-005

AVERAGE CONCENTRATIONS FOR 3 HOURS.

** CONCENTRATIONS AT RECEPTORS ***
CONCENTRATIONS IN GRAMS PER CUBIC METER

HOUR	RECEPTOR NO.	RECEPTOR COORDINATES EAST	NORTH	HEIGHT	FROM POINTS	FROM AREAS	FROM HORIZONAL LINES	FROM CURVED PATHS	FROM SPECIAL LINES	FROM SPECIAL PATHS	TOTAL
0	1	4.600	4.200	1.00	.000	.000	.000	.000	1.407-004	.000	1.407-004
0	2	4.600	3.600	1.00	.000	.000	.000	.000	6.506-005	.000	6.506-005
0	3	4.600	2.400	1.00	1.052-005	1.890-003	3.639-010	.000	3.772-005	.000	1.938-003
0	4	4.600	1.200	1.00	1.232-005	5.279-004	5.231-007	.000	2.909-005	.000	5.699-004
0	5	4.600	.200	1.00	7.643-006	3.107-004	1.096-006	7.686-005	2.643-005	.000	4.228-004

** METEOROLOGY ***

NO.	THETA(DEG)	U (M/SEC)	KST	HL (M)	T (DEG-K)
1.	30.	3.0	4	1000.	290.
2.	45.	6.1	4	1000.	300.
3.	50.	3.8	3	1000.	298.

DIURNAL VARIATIONS (FRACTIONS OF GIVEN Q)

POINT	AREA	HORIZONAL LINE	CURVED PATH	SPECIAL LINE	SPECIAL PATH
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

** CONCENTRATIONS AT RECEPTORS ***
CONCENTRATIONS IN GRAMS PER CUBIC METER

HOUR	RECEPTOR NO.	RECEPTOR COORDINATES EAST	NORTH	HEIGHT	FROM POINTS	FROM AREAS	FROM HORIZONAL LINES	FROM CURVED PATHS	FROM SPECIAL LINES	FROM SPECIAL PATHS	TOTAL
1	1	4.600	4.200	1.00	.000	.000	.000	.000	1.521-004	.000	1.521-004
1	2	4.600	3.600	1.00	.000	.000	.000	.000	6.939-005	.000	6.939-005
1	3	4.600	2.400	1.00	.000	7.377-004	4.977-005	.000	3.600-005	.000	8.235-004
1	4	4.600	1.200	1.00	.000	.000	2.370-005	.000	8.914-006	.000	3.261-005
1	5	4.600	.200	1.00	.000	.000	5.628-005	1.346-004	3.901-007	.000	1.912-004

** CONCENTRATIONS AT RECEPTORS ***
CONCENTRATIONS IN GRAMS PER CUBIC METER

HOUR	RECEPTOR NO.	RECEPTOR COORDINATES EAST	NORTH	HEIGHT	FROM POINTS	FROM AREAS	FROM HORIZONAL LINES	FROM CURVED PATHS	FROM SPECIAL LINES	FROM SPECIAL PATHS	TOTAL
2	1	4.600	4.200	1.00	.000	.000	.000	.000	7.822-005	.000	7.822-005
2	2	4.600	3.600	1.00	.000	.000	.000	.000	3.397-005	.000	3.397-005
2	3	4.600	2.400	1.00	.000	3.868-005	2.548-005	.000	[illegible]	.000	6.626-005
2	4	4.600	1.200	1.00	.000	.000	3.912-005	.000	2.190-011	[illegible]	3.912-005
2	5	4.600	.200	1.00	.000	.000	6.314-006	1.567-005	1.733-016	.000	[illegible]

** CONCENTRATIONS AT RECEPTORS ***

CONCENTRATIONS IN GRAMS PER CUBIC METER

HOUR	RECEPTOR NO.	RECEPTOR COORDINATES EAST	NORTH	HEIGHT	FROM POINTS	FROM AREAS	FROM HORIZONAL LINES	FROM CURVED PATHS	FROM SPECIAL LINES	FROM SPECIAL PATHS	TOTAL
3	1	4.600	4.200	1.00	.000	.000	6.491-029	.000	7.789-005	.000	7.789-005
3	2	4.600	3.600	1.00	.000	.000	8.665-016	.000	2.626-005	.000	2.626-005
3	3	4.600	2.400	1.00	.000	1.797-005	2.296-005	.000	5.047-007	.000	4.143-005
3	4	4.600	1.200	1.00	.000	.000	2.822-005	2.154-014	1.263-010	.000	2.822-005
3	5	4.600	.200	1.00	.000	.000	2.049-006	5.608-006	7.029-014	.000	7.658-006

AVERAGE CONCENTRATIONS FOR 3 HOURS.

** C O N C E N T R A T I O N S A T R E C E P T O R S ***
CONCENTRATIONS IN GRAMS PER CUBIC METER

HOUR	RECEPTOR NO.	RECEPTOR COORDINATES EAST	NORTH	HEIGHT	FROM POINTS	FROM AREAS	FROM HORIZONAL LINES	FROM CURVED PATHS	FROM SPECIAL LINES	FROM SPECIAL PATHS	TOTAL
0	1	4.600	4.200	1.00	.000	.000	2.164-029	.000	1.027-004	.000	1.027-004
0	2	4.600	3.600	1.00	.000	.000	2.888-016	.000	4.321-005	.000	4.321-005
0	3	4.600	2.400	1.00	.000	2.648-004	3.274-005	.000	1.287-005	.000	3.104-004
0	4	4.600	1.200	1.00	.000	.000	3.035-005	7.179-015	2.971-006	.000	3.332-005
0	5	4.600	.200	1.00	.000	.000	2.155-005	5.195-005	1.300-007	.000	7.363-005

JXQT U.ABS3

COMPLEX II - VERSION 80352

ALPHA PLANT - 3 STACKS FOR 2-3 HR PERIODS FOR SO2
MET DATA: SIX HOURS, HYPOTHETICAL WITH VARYING STABILITY
INPUT BY: T. PIERCE, ENVIRONMENTAL OPERATIONS BRANCH ON 3 OCT 1980

COMPLEXII (VERSION 80352)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 1, MODELS FOR EVALUATION,
IN UNAMAP (VERSION 4) DEC 80
SOURCE: FILE 3 ON UNAMAP MAGNETIC TAPE FROM NTIS.

GENERAL INPUT INFORMATION

THIS RUN OF COMPLEX II-VERSION 80352 IS FOR THE POLLUTANT SO2 FOR 2 3-HOUR PERIODS.
CONCENTRATION ESTIMATES BEGIN ON HOUR-12,JULIAN DAY-192, YEAR-1980.
A FACTOR OF 1.0000000 HAS BEEN SPECIFIED TO CONVERT USER LENGTH UNITS TO KILOMETERS.
3 SIGNIFICANT SOURCES ARE TO BE CONSIDERED.
THIS RUN WILL NOT CONSIDER ANY POLLUTANT LOSS.
A FACTOR OF 1.0000000 HAS BEEN SPECIFIED TO CONVERT USER HEIGHT UNITS TO METERS.

OPTION	OPTION LIST	OPTION SPECIFICATION : 0= IGNORE OPTION 1= USE OPTION
	TECHNICAL OPTIONS	
1	TERRAIN ADJUSTMENTS	1
2	DO NOT INCLUDE STACK DOWNWASH CALCULATIONS	0
3	DO NOT INCLUDE GRADUAL PLUME RISE CALCULATIONS	0
4	CALCULATE INITIAL PLUME SIZE	1
	INPUT OPTIONS	
5	READ MET DATA FROM CARDS	1
6	READ HOURLY EMISSIONS	0
7	SPECIFY SIGNIFICANT SOURCES	0
8	READ RADIAL DISTANCES TO GENERATE RECEPTORS	0
	PRINTED OUTPUT OPTIONS	
9	DELETE EMISSIONS WITH HEIGHT TABLE	0
10	DELETE MET DATA SUMMARY FOR AVG PERIOD	1
11	DELETE HOURLY CONTRIBUTIONS	0
12	DELETE MET DATA ON HOURLY CONTRIBUTIONS	0
13	DELETE FINAL PLUME RISE CALC ON HRLY CONTRIBUTIONS	0
14	DELETE HOURLY SUMMARY	1
15	DELETE MET DATA ON HRLY SUMMARY	1
16	DELETE FINAL PLUME RISE CALC ON HRLY SUMMARY	1
17	DELETE AVG-PERIOD CONTRIBUTIONS	0
18	DELETE AVERAGING PERIOD SUMMARY	1
19	DELETE AVG CONCENTRATIONS AND HI-5 TABLES	1
	OTHER CONTROL AND OUTPUT OPTIONS	
20	RUN IS PART OF A SEGMENTED RUN	0
21	WRITE PARTIAL CONC TO DISK OR TAPE	0
22	WRITE HOURLY CONC TO DISK OR TAPE	0
23	WRITE AVG-PERIOD CONC TO DISK OR TAPE	0
24	PUNCH AVG-PERIOD CONC ONTO CARDS	0
25	COMPLEX TERRAIN OPTION	1

ANEMOMETER HEIGHT IS: 10.00
EXPONENTS FOR POWER- LAW WIND INCREASE WITH HEIGHT ARE: .10, .15, .20, .25, .30, .30
TERRAIN ADJUSTMENTS ARE: .500, .500, .500, .500, .000, .000 ZMIN IS 10.0

POINT SOURCE INFORMATION

SOURCE	EAST COORD (USER UNITS)	NORTH COORD (USER UNITS)	SO2(G/SEC) EMISSIONS	PART(G/SEC) EMISSIONS	STACK HT(M)	STACK TEMP(K)	STACK DIAM(M)	STACK VEL(M/SEC)	POTEN. IMPACT (MICRO G/M**3)	EFF HT(M)	GRD-LVL ELEV USER UNITS	BUOY FLUX F M**4/S**3
1 ALPHA STK #1	.00	.00	2000.00	.00	81.0	458.0	5.2	4.5	1446.81	294.53	100.00	107.47
2 ALPHA STK #2	.00	.00	2000.00	.00	81.0	458.0	3.9	7.7	1490.89	289.69	100.00	103.44
3 ALPHA STK #3	.00	.00	1100.00	.00	84.0	433.0	2.6	29.0	581.34	350.41	100.00	155.39

SIGNIFICANT SO2 POINT SOURCES

RANK	CHI-MAX (MICROGRAMS/M**3)	SOURCE NO.
1	1490.89	2
2	1446.81	1
3	581.34	3

TOTAL SO2 EMISSION AND CUMULATIVE FRACTION ACCORDING TO HEIGHT

HEIGHT(M)	TOTAL POINT EMISSIONS(G/S)	CUMULATIVE FRACTION
0 - 5	.00	.000
6 - 10	.00	.000
11 - 15	.00	.000
16 - 20	.00	.000
21 - 25	.00	.000
26 - 30	.00	.000
31 - 35	.00	.000
36 - 40	.00	.000
41 - 45	.00	.000
46 - 50	.00	.000
51 - 55	.00	.000
56 - 60	.00	.000
61 - 65	.00	.000
66 - 70	.00	.000
71 - 75	.00	.000
76 - 80	.00	.000
81 - 85	5100.00	1.000
86 - 90	.00	1.000
91 - 95	.00	1.000
96 -100	.00	1.000
TOTAL	5100.00	

ADDITIONAL INFORMATION ON SOURCES.

EMISSION INFORMATION FOR 3 (NPT) POINT SOURCES HAS BEEN INPUT
3 SIGNIFICANT POINT SOURCES(NSIGP) ARE TO BE USED FOR THIS RUN
THE ORDER OF SIGNIFICANCE(IMPS) FOR 25 OR LESS POINT SOURCES USED IN THIS RUN AS LISTED BY POINT SOURCE NUMBER:
2 1 3

RECEPTOR INFORMATION

RECEPTOR	IDENTIFICATION	EAST COORD (USER UNITS)	NORTH COORD (USER UNITS)	ABV	RECEPTOR HT LOCAL GRD LVL (METERS)	RECEPTOR GROUND LEVEL ELEVATION (USER HT UNITS)
1	BETA	1.319	.000		.0	103.0
2 *	CHI	1.710	.000		.0	90.0
3	DELTA	2.500	.000		.0	163.0
4	EPSILON	2.940	.000		.0	181.0
5**	GAMMA	3.240	.000		.0	210.0
6**	IOTA	5.560	.000		.0	453.0

* ONE ASTERISK INDICATES THAT THE ASSOCIATED RECEPTOR(S) HAVE A GROUND LEVEL ELEVATION LOWER THAN THE LOWEST SOURCE BASE ELEVATION. CAUTION SHOULD BE USED IN INTERPRETING CONCENTRATIONS FOR THESE RECEPTORS.

** TWO ASTERISKS INDICATE THAT THE ASSOCIATED RECEPTOR(S) HAVE GROUND LEVEL ELEVATIONS ABOVE THE LOWEST STACK TOP. CONSEQUENTLY NO CALCULATIONS WILL BE PERFORMED WITH THIS RECEPTOR.A SERIES OF ASTERISKS WILL INSTEAD APPEAR IN THE OUTPUT.

ALPHA PLANT - 3 STACKS FOR 2-3 HR PERIODS FOR SO2
MET DATA: SIX HOURS, HYPOTHETICAL WITH VARYING STABILITY
INPUT BY: T. PIERCE, ENVIRONMENTAL OPERATIONS BRANCH ON 3 OCT 1980

SO2 CONTRIBUTION(MICROGRAMS/M**3) FROM SIGNIFICANT POINT SOURCES 80/ 192 : HOUR 12

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
12	270.00	2.00	5000.00	293.00	1

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	340.84	334.95	407.01							
DIST FIN HT (KM)	.773	.761	.896							

RANK	1	2	3	TOTAL SIGNIF POINT	TOTAL ALL POINT SOURCES
SOURCE #	2	1	3		
RECEP #					
1	1051.731	1046.770	541.458	2639.959	2639.959
2 *	518.186	517.088	276.133	1311.406	1311.406
3	172.567	172.438	93.639	438.644	438.644
4	106.902	106.847	58.186	271.936	271.936
5**	87.586	87.549	47.727	222.862	222.862
6**	55.204	55.195	30.179	140.579	140.579

ALPHA PLANT - 3 STACKS FOR 2-3 HR PERIODS FOR SO2
MET DATA: SIX HOURS, HYPOTHETICAL WITH VARYING STABILITY
INPUT BY: T. PIERCE, ENVIRONMENTAL OPERATIONS BRANCH ON 3 OCT 1980

SO2 CONTRIBUTION(MICROGRAMS/M**3) FROM SIGNIFICANT POINT SOURCES 80/ 192 : HOUR 13

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
13	270.00	3.00	5000.00	293.00	2

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	232.82	233.49	277.60							
DIST FIN HT (KM)	.773	.761	.896							

RANK	1	2	3	TOTAL SIGNIF POINT	TOTAL ALL POINT SOURCES
SOURCE #	2	1	3		
RECEP #					
1	1606.769	1619.159	569.587	3795.515	3795.515
2 *	1513.479	1518.962	626.650	3659.091	3659.091
3	1169.900	1170.880	570.236	2911.016	2911.016
4	923.633	924.069	466.625	2314.327	2314.327
5**	798.318	798.548	410.855	2007.720	2007.720
6**	301.666	301.637	163.749	767.052	767.052

ALPHA PLANT - 3 STACKS FOR 2-3 HR PERIODS FOR SO2
MET DATA: SIX HOURS, HYPOTHETICAL WITH VARYING STABILITY
INPUT BY: T. PIERCE, ENVIRONMENTAL OPERATIONS BRANCH ON 3 OCT 1980

SO2 CONTRIBUTION(MICROGRAMS/M**3) FROM SIGNIFICANT POINT SOURCES 80/ 192 : HOUR 14

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
14	270.00	4.00	5000.00	293.00	3

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	178.50	182.19	214.55							
DIST FIN HT (KM)	.773	.761	.896							

RANK	1	2	3	TOTAL SIGNIF POINT	TOTAL ALL POINT SOURCES
SOURCE #	2	1	3		
RECEP #					
1	910.966	1008.893	239.958	2159.816	2159.816
2 *	1172.702	1253.158	374.301	2800.160	2800.160
3	1764.329	1810.872	745.566	4320.766	4320.766
4	1589.343	1618.391	719.953	3927.687	3927.687
5**	1502.063	1522.445	709.143	3733.651	3733.651
6**	695.462	696.585	371.417	1763.464	1763.464

ALPHA PLANT - 3 STACKS FOR 2-3 HR PERIODS FOR SO2
MET DATA: SIX HOURS, HYPOTHETICAL WITH VARYING STABILITY
INPUT BY: T. PIERCE, ENVIRONMENTAL OPERATIONS BRANCH ON 3 OCT 1980

3-HOUR AVERAGE SO2 CONTRIBUTION(MICROGRAMS/M**3) FROM SIGNIFICANT POINT SOURCES 80/192 START HOUR: 12

RANK	1	2	3	TOTAL SIGNIF POINT	TOTAL ALL POINT SOURCES
SOURCE #	2	1	3		
RECEP #					
1	1189.822	1224.940	450.334	2865.097	2865.097
2 *	1068.122	1096.403	425.694	2590.219	2590.219
3	1035.599	1051.396	469.813	2556.808	2556.808
4	873.293	883.102	414.921	2171.317	2171.317
5**	795.989	802.847	389.242	1988.078	1988.078
6**	350.778	351.139	188.448	890.365	890.365

ALPHA PLANT - 3 STACKS FOR 2-3 HR PERIODS FOR SO2
MET DATA: SIX HOURS, HYPOTHETICAL WITH VARYING STABILITY
INPUT BY: T. PIERCE, ENVIRONMENTAL OPERATIONS BRANCH ON 3 OCT 1980

SO2 CONTRIBUTION(MICROGRAMS/M**3) FROM SIGNIFICANT POINT SOURCES 80/ 192 : HOUR 15

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
15	270.00	5.00	5000.00	293.00	4

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	146.89	150.64	177.89							
DIST FIN HT (KM)	.773	.761	.896							

RANK	1	2	3	TOTAL SIGNIF POINT	TOTAL ALL POINT SOURCES
SOURCE #	2	1	3		
RECEP #					
1	58.406	82.101	7.904	148.410	148.410
2 *	106.063	138.055	16.505	260.623	260.623
3	1197.785	1353.384	292.051	2843.220	2843.220
4	1625.124	1781.167	460.424	3866.715	3866.715
5**	2165.993	2323.000	689.129	5178.122	5178.122
6**	1785.691	1811.353	860.744	4457.788	4457.788

ALPHA PLANT - 3 STACKS FOR 2-3 HR PERIODS FOR SO2
MET DATA: SIX HOURS, HYPOTHETICAL WITH VARYING STABILITY
INPUT BY: T. PIERCE, ENVIRONMENTAL OPERATIONS BRANCH ON 3 OCT 1980

SO2 CONTRIBUTION(MICROGRAMS/M**3) FROM SIGNIFICANT POINT SOURCES 80/ 192 : HOUR 16

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
16	270.00	3.00	5000.00	293.00	5

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	153.21	158.47	173.56							
DIST FIN HT (KM)	.450	.450	.455							

RANK	1	2	3	TOTAL SIGNIF POINT	TOTAL ALL POINT SOURCES
SOURCE #	2	1	3		
RECEP #					
1	1.511	3.323	.389	5.224	5.224
2 *	1.632	3.258	.405	5.294	5.294
3	2078.646	2696.236	612.424	5387.306	5387.306
4	4569.467	5463.041	1527.262	11559.770	11559.770
5**	9462.920	10431.002	3699.914	23593.836	23593.836
6**	3777.928	3675.055	2163.270	9616.253	9616.253

ALPHA PLANT - 3 STACKS FOR 2-3 HR PERIODS FOR SO2
MET DATA: SIX HOURS, HYPOTHETICAL WITH VARYING STABILITY
INPUT BY: T. PIERCE, ENVIRONMENTAL OPERATIONS BRANCH ON 3 OCT 1980

SO2 CONTRIBUTION(MICROGRAMS/M**3) FROM SIGNIFICANT POINT SOURCES 80/ 192 : HOUR 17

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
17	270.00	2.00	5000.00	293.00	6

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	153.40	155.55	169.07							
DIST FIN HT (KM)	.227	.227	.229							

RANK	1	2	3	TOTAL SIGNIF POINT	TOTAL ALL POINT SOURCES
SOURCE #	2	1	3		
RECEP #					
1	.015	.031	.008	.054	.054
2 *	.008	.015	.004	.026	.026
3	1099.662	1375.490	287.775	2762.927	2762.927
4	4947.505	5761.311	1395.918	12104.734	12104.734
5**	20710.886	22420.171	6897.312	50028.369	50028.369
6**	12382.910	12210.110	6916.098	31509.118	31509.118

ALPHA PLANT - 3 STACKS FOR 2-3 HR PERIODS FOR SO2
MET DATA: SIX HOURS, HYPOTHETICAL WITH VARYING STABILITY
INPUT BY: T. PIERCE, ENVIRONMENTAL OPERATIONS BRANCH ON 3 OCT 1980

3-HOUR AVERAGE SO2 CONTRIBUTION(MICROGRAMS/M**3) FROM SIGNIFICANT POINT SOURCES 80/192 START HOUR: 15

RANK	1	2	3	TOTAL SIGNIF POINT	TOTAL ALL POINT SOURCES
SOURCE #	2	1	3		
RECEP #					
1	19.977	28.485	2.767	51.229	51.229
2 *	35.901	47.109	5.638	88.648	88.648
3	1458.698	1808.370	397.417	3664.484	3664.484
4	3714.032	4335.173	1127.868	9177.073	9177.073
5**	10779.933	11724.724	3762.118	26266.775	26266.775
6**	5982.176	5898.839	3313.371	15194.386	15194.386

$XQT U.ABS4

COMPLEX I - VERSION 80353
ALPHA PLANT - 3 STACKS FOR 2-3 HR PERIODS FOR SO2
MET DATA: SIX HOURS, HYPOTHETICAL WITH VARYING STABILITY
INPUT BY: T. PIERCE, ENVIRONMENTAL OPERATIONS BRANCH ON 3 OCT 1980

COMPLEXI (VERSION 80353)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 1. MODELS FOR EVALUATION.
IN UNAMAP (VERSION 4) DEC 80
SOURCE: FILE 4 ON UNAMAP MAGNETIC TAPE FROM NTIS.

GENERAL INPUT INFORMATION

THIS RUN OF COMPLEX I -VERSION 80353 IS FOR THE POLLUTANT SO2 FOR 2 3-HOUR PERIODS.
CONCENTRATION ESTIMATES BEGIN ON HOUR-12,JULIAN DAY-192, YEAR-1980.
A FACTOR OF 1.0000000 HAS BEEN SPECIFIED TO CONVERT USER LENGTH UNITS TO KILOMETERS.
3 SIGNIFICANT SOURCES ARE TO BE CONSIDERED.
THIS RUN WILL NOT CONSIDER ANY POLLUTANT LOSS.
A FACTOR OF 1.0000000 HAS BEEN SPECIFIED TO CONVERT USER HEIGHT UNITS TO METERS.

OPTION	OPTION LIST	OPTION SPECIFICATION : 0= IGNORE OPTION 1= USE OPTION
	TECHNICAL OPTIONS	
1	TERRAIN ADJUSTMENTS	1
2	DO NOT INCLUDE STACK DOWNWASH CALCULATIONS	0
3	DO NOT INCLUDE GRADUAL PLUME RISE CALCULATIONS	0
4	CALCULATE INITIAL PLUME SIZE	1
	INPUT OPTIONS	
5	READ MET DATA FROM CARDS	1
6	READ HOURLY EMISSIONS	0
7	SPECIFY SIGNIFICANT SOURCES	0
8	READ RADIAL DISTANCES TO GENERATE RECEPTORS	0
	PRINTED OUTPUT OPTIONS	
9	DELETE EMISSIONS WITH HEIGHT TABLE	0
10	DELETE MET DATA SUMMARY FOR AVG PERIOD	1
11	DELETE HOURLY CONTRIBUTIONS	0
12	DELETE MET DATA ON HOURLY CONTRIBUTIONS	0
13	DELETE FINAL PLUME RISE CALC ON HRLY CONTRIBUTIONS	0
14	DELETE HOURLY SUMMARY	1
15	DELETE MET DATA ON HRLY SUMMARY	1
16	DELETE FINAL PLUME RISE CALC ON HRLY SUMMARY	1
17	DELETE AVG-PERIOD CONTRIBUTIONS	0
18	DELETE AVERAGING PERIOD SUMMARY	1
19	DELETE AVG CONCENTRATIONS AND HI-5 TABLES	1
	OTHER CONTROL AND OUTPUT OPTIONS	
20	RUN IS PART OF A SEGMENTED RUN	0
21	WRITE PARTIAL CONC TO DISK OR TAPE	0
22	WRITE HOURLY CONC TO DISK OR TAPE	0
23	WRITE AVG-PERIOD CONC TO DISK OR TAPE	0
24	PUNCH AVG-PERIOD CONC ONTO CARDS	0
25	COMPLEX TERRAIN OPTION	1

ANEMOMETER HEIGHT IS: 10.00
EXPONENTS FOR POWER- LAW WIND INCREASE WITH HEIGHT ARE: .10, .15, .20, .25, .30, .30
TERRAIN ADJUSTMENTS ARE: .500, .500, .500, .500, .000, .000 ZMIN IS 10.0

POINT SOURCE INFORMATION

SOURCE	EAST COORD (USER UNITS)	NORTH COORD (USER UNITS)	SO2(G/SEC) EMISSIONS	PART(G/SEC) EMISSIONS	STACK HT(M)	STACK TEMP(K)	STACK DIAM(M)	STACK VEL(M/SEC)	POTEN. IMPACT (MICRO G/M**3)	EFF HT(M)	GRD-LVL ELEV USER HT UNITS	BUOY FLUX F M**4/S**3
1 ALPHA STK #1	.00	.00	2000.00	.00	81.0	458.0	5.2	4.5	1446.81	294.53	100.00	107.47
2 ALPHA STK #2	.00	.00	2000.00	.00	81.0	458.0	3.9	7.7	1490.89	289.69	100.00	103.44
3 ALPHA STK #3	.00	.00	1100.00	.00	84.0	433.0	2.6	29.0	581.34	350.41	100.00	155.39

SIGNIFICANT SO2 POINT SOURCES

RANK	CHI-MAX (MICROGRAMS/M**3)	SOURCE NO.
1	1490.89	2
2	1446.81	1
3	581.34	3

TOTAL SO2 EMISSION AND CUMULATIVE FRACTION ACCORDING TO HEIGHT

HEIGHT(M)	TOTAL POINT EMISSIONS(G/S)	CUMULATIVE FRACTION
0 - 5	.00	.000
6 - 10	.00	.000
11 - 15	.00	.000
16 - 20	.00	.000
21 - 25	.00	.000
26 - 30	.00	.000
31 - 35	.00	.000
36 - 40	.00	.000
41 - 45	.00	.000
46 - 50	.00	.000
51 - 55	.00	.000
56 - 60	.00	.000
61 - 65	.00	.000
66 - 70	.00	.000
71 - 75	.00	.000
76 - 80	.00	.000
81 - 85	5100.00	1.000
86 - 90	.00	1.000
91 - 95	.00	1.000
96 -100	.00	1.000
TOTAL	5100.00	

ADDITIONAL INFORMATION ON SOURCES.

EMISSION INFORMATION FOR 3 (NPT) POINT SOURCES HAS BEEN INPUT
3 SIGNIFICANT POINT SOURCES(NSIGP) ARE TO BE USED FOR THIS RUN
THE ORDER OF SIGNIFICANCE(IMPS) FOR 25 OR LESS POINT SOURCES USED IN THIS RUN AS LISTED BY POINT SOURCE NUMBER:
2 1 3

RECEPTOR INFORMATION

RECEPTOR	IDENTIFICATION	EAST COORD (USER UNITS)	NORTH COORD (USER UNITS)	RECEPTOR HT ABV LOCAL GRD LVL (METERS)	RECEPTOR GROUND LEVEL ELEVATION (USER HT UNITS)
1	BETA	1.319	.000	.0	103.0
2 *	CHI	1.710	.000	.0	90.0
3	DELTA	2.500	.000	.0	163.0
4	EPSILON	2.940	.000	.0	181.0
5**	GAMMA	3.240	.000	.0	210.0
6**	IOTA	5.560	.000	.0	453.0

* ONE ASTERISK INDICATES THAT THE ASSOCIATED RECEPTOR(S) HAVE A GROUND LEVEL ELEVATION LOWER THAN THE LOWEST SOURCE BASE ELEVATION. CAUTION SHOULD BE USED IN INTERPRETING CONCENTRATIONS FOR THESE RECEPTORS.

** TWO ASTERISKS INDICATE THAT THE ASSOCIATED RECEPTOR(S) HAVE GROUND LEVEL ELEVATIONS ABOVE THE LOWEST STACK TOP. CONSEQUENTLY NO CALCULATIONS WILL BE PERFORMED WITH THIS RECEPTOR.A SERIES OF ASTERISKS WILL INSTEAD APPEAR IN THE OUTPUT.

ALPHA PLANT - 3 STACKS FOR 2-3 HR PERIODS FOR SO2
MET DATA: SIX HOURS, HYPOTHETICAL WITH VARYING STABILITY
INPUT BY: T. PIERCE, ENVIRONMENTAL OPERATIONS BRANCH ON 3 OCT 1980

SO2 CONTRIBUTION(MICROGRAMS/M**3) FROM SIGNIFICANT POINT SOURCES 80/ 192 : HOUR 12

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
12	270.00	2.00	5000.00	293.00	1

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	340.84	334.95	407.01							
DIST FIN HT (KM)	.773	.761	.896							

RANK	1	2	3	TOTAL SIGNIF POINT	TOTAL ALL POINT SOURCES
SOURCE #	2	1	3		
RECEP #					
1	1404.844	1400.483	738.528	3543.856	3543.856
2 *	661.985	661.279	357.626	1680.889	1680.889
3	207.862	207.822	113.612	529.296	529.296
4	125.735	125.723	68.815	320.272	320.272
5**	101.575	101.568	55.609	258.752	258.752
6**	59.251	59.249	32.451	150.951	150.951

ALPHA PLANT - 3 STACKS FOR 2-3 HR PERIODS FOR SO2
MET DATA: SIX HOURS, HYPOTHETICAL WITH VARYING STABILITY
INPUT BY: T. PIERCE, ENVIRONMENTAL OPERATIONS BRANCH ON 3 OCT 1980

SO2 CONTRIBUTION(MICROGRAMS/M**3) FROM SIGNIFICANT POINT SOURCES 80/ 192 : HOUR 13

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
13	270.00	3.00	5000.00	293.00	2

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	232.82	233.49	277.60							
DIST FIN HT (KM)	.773	.761	.896							

RANK	1	2	3	TOTAL SIGNIF POINT	TOTAL ALL POINT SOURCES
SOURCE #	2	1	3		
RECEP #					
1	1571.444	1585.288	564.931	3721.663	3721.663
2 *	1426.250	1432.417	595.890	3454.557	3454.557
3	1048.473	1049.730	513.453	2611.656	2611.656
4	810.809	811.413	411.079	2033.301	2033.301
5**	692.226	692.585	357.322	1742.133	1742.133
6**	244.273	244.271	132.750	621.294	621.294

ALPHA PLANT - 3 STACKS FOR 2-3 HR PERIODS FOR SO2
MET DATA: SIX HOURS, HYPOTHETICAL WITH VARYING STABILITY
INPUT BY: T. PIERCE, ENVIRONMENTAL OPERATIONS BRANCH ON 3 OCT 1980

SO2 CONTRIBUTION(MICROGRAMS/M**3) FROM SIGNIFICANT POINT SOURCES 30/ 192 : HOUR 14

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
14	270.00	4.00	5000.00	293.00	3

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	178.50	182.19	214.55							
DIST FIN HT (KM)	.773	.761	.896							

RANK	1	2	3	TOTAL SIGNIF POINT	TOTAL ALL POINT SOURCES
SOURCE #	2	1	3		
RECEP #					
1	598.929	664.042	159.992	1422.963	1422.963
2 *	746.002	797.741	240.250	1783.994	1783.994
3	1074.391	1103.128	456.104	2633.622	2633.622
4	950.789	968.426	432.182	2351.397	2351.397
5**	889.174	901.442	421.009	2211.625	2211.625
6**	388.507	389.168	207.715	985.390	985.390

ALPHA PLANT - 3 STACKS FOR 2-3 HR PERIODS FOR SO2
MET DATA: SIX HOURS, HYPOTHETICAL WITH VARYING STABILITY
INPUT BY: T. PIERCE, ENVIRONMENTAL OPERATIONS BRANCH ON 3 OCT 1980

3-HOUR AVERAGE SO2 CONTRIBUTION(MICROGRAMS/M**3) FROM SIGNIFICANT POINT SOURCES 80/192 START HOUR: 12

RANK	1	2	3	TOTAL SIGNIF POINT	TOTAL ALL POINT SOURCES
SOURCE #	2	1	3		
RECEP #					
1	1191.739	1216.605	487.817	2896.161	2896.161
2 *	944.746	963.812	397.922	2306.480	2306.480
3	776.909	786.893	361.056	1924.858	1924.858
4	629.111	635.187	304.025	1568.324	1568.324
5**	560.992	565.198	277.980	1404.170	1404.170
6**	230.677	230.896	124.305	585.878	585.878

ALPHA PLANT - 3 STACKS FOR 2-3 HR PERIODS FOR SO2
MET DATA: SIX HOURS, HYPOTHETICAL WITH VARYING STABILITY
INPUT BY: T. PIERCE, ENVIRONMENTAL OPERATIONS BRANCH ON 3 OCT 1980

SO2 CONTRIBUTION(MICROGRAMS/M**3) FROM SIGNIFICANT POINT SOURCES 80/ 192 : HOUR 15

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
15	270.00	5.00	5000.00	293.00	4

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	146.89	150.64	177.89							
DIST FIN HT (KM)	.273	.761	.896							

RANK	1	2	3	TOTAL SIGNIF POINT	TOTAL ALL POINT SOURCES
SOURCE #	2	1	3		
RECEP #					
1	25.494	35.884	3.507	64.885	64.885
2 *	44.740	58.284	7.036	110.060	110.060
3	483.275	546.286	118.470	1148.031	1148.031
4	649.067	706.134	183.212	1533.413	1533.413
5**	849.415	911.229	271.167	2031.811	2031.811
6**	660.963	670.529	319.013	1650.505	1650.505

ALPHA PLANT - 3 STACKS FOR 2-3 HR PERIODS FOR SO2
MET DATA: SIX HOURS, HYPOTHETICAL WITH VARYING STABILITY
INPUT BY: T. PIERCE, ENVIRONMENTAL OPERATIONS BRANCH ON 3 OCT 1980

SO2 CONTRIBUTION(MICROGRAMS/M**3) FROM SIGNIFICANT POINT SOURCES 80/ 192 : HOUR 16

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
16	270.00	3.00	5000.00	293.00	5

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	153.21	158.47	173.56							
DIST FIN HT (KM)	.450	.450	.455							

RANK	1	2	3	TOTAL SIGNIF POINT	TOTAL ALL POINT SOURCES
SOURCE #	2	1	3		
RECEP #					
1	.507	1.116	.132	1.755	1.755
2 *	.524	1.047	.131	1.702	1.702
3	632.972	821.409	187.483	1641.864	1641.864
4	1363.860	1631.127	457.674	3452.661	3452.661
5**	2791.954	3078.468	1095.319	6965.741	6965.741
6**	1048.686	1020.243	601.265	2670.195	2670.195

ALPHA PLANT - 3 STACKS FOR 2-3 HR PERIODS FOR SO2
MET DATA: SIX HOURS, HYPOTHETICAL WITH VARYING STABILITY
INPUT BY: T. PIERCE, ENVIRONMENTAL OPERATIONS BRANCH ON 3 OCT 1980

SO2 CONTRIBUTION(MICROGRAMS/M**3) FROM SIGNIFICANT POINT SOURCES 80/ 192 : HOUR 17

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
17	270.00	2.00	5000.00	293.00	6

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	153.40	155.55	169.07							
DIST FIN HT (KM)	.227	.227	.229							

RANK	1	2	3	TOTAL SIGNIF POINT	TOTAL ALL POINT SOURCES
SOURCE #	2	1	3		
RECEP #					
1	.004	.007	.002	.013	.013
2 *	.002	.003	.001	.006	.006
3	226.874	284.035	59.992	570.901	570.901
4	996.156	1160.801	283.293	2440.250	2440.250
5**	4113.515	4455.570	1379.125	9948.210	9948.210
6**	2298.055	2266.494	1286.871	5851.421	5851.421

ALPHA PLANT - 3 STACKS FOR 2-3 HR PERIODS FOR SO2
MET DATA: SIX HOURS, HYPOTHETICAL WITH VARYING STABILITY
INPUT BY: T. PIERCE, ENVIRONMENTAL OPERATIONS BRANCH ON 3 OCT 1980

3-HOUR AVERAGE SO2 CONTRIBUTION(MICROGRAMS/M**3) FROM SIGNIFICANT POINT SOURCES 80/192 START HOUR: 15

RANK	1	2	3	TOTAL SIGNIF POINT	TOTAL ALL POINT SOURCES
SOURCE #	2	1	3		
RECEP #					
1	8.668	12.336	1.214	22.217	22.217
2 *	15.089	19.778	2.389	37.256	37.256
3	447.707	550.577	121.982	1120.265	1120.265
4	1001.361	1166.021	308.060	2475.441	2475.441
5**	2584.961	2815.089	915.204	6315.254	6315.254
6**	1335.901	1319.089	735.716	3390.707	3390.707

$XQT U.ABS5

OUTPUT FROM URBAN RAM (VERSION 80336)
AN AQDM IN SECTION 2. GUIDELINE MODELS
IN UNAMAP (VERSION 4) DEC 80
SOURCE: FILE 5 ON UNAMAP MAGNETIC TAPE FROM NTIS.

TEST RUN: ALFREIDA D. RANKINS
EMISSIONS: TEST CITY, 1973
SFC MET DATA: TEST CITY 1973; UPPER AIR: TEST CITY 1973

GENERAL INPUT INFORMATION

THIS IS THE URBAN VERSION(80336) OF RAM FOR THE POLLUTANT SO2 FOR 1 2-HOUR PERIODS.
CONCENTRATION ESTIMATES BEGIN ON HOUR- 1, JULIAN DAY- 1, YEAR-1973.
UNITS - THERE ARE 2.0000000 USER UNITS(INPUT UNITS) PER SMALLEST AREA SOURCE SQUARE SIDE LENGTH(INTERNAL UNIT)
CONOME - THERE ARE 1.6093440 KILOMETERS PER USER UNIT
CONTWO - IT IS CALCULATED THAT THERE ARE 3.2186880 KILOMETERS PER SMALLEST AREA SOURCE SQUARE SIDE LENGTH(INTERNAL UNIT)
RECEPTOR HEIGHT IS .0000000 METERS

A HALF-LIFE OF 14400.00 (SECONDS) HAS BEEN ASSUMED BY THE USER.

OPTION	OPTION LIST	OPTION SPECIFICATION : 0= IGNORE OPTION 1= USE OPTION
	TECHNICAL OPTIONS	
1	NO STACK DOWNWASH	0
2	NO GRADUAL PLUME RISE.	0
3	USE BOUYANCY INDUCED DISPERSION	0
4	NOT USED THIS VERSION	4
	INPUT OPTIONS	
5	WILL YOU INPUT POINT SOURCES?	1
6	WILL YOU INPUT AREA SOURCES?	1
7	WILL YOU USE EMISSIONS FROM PREVIOUS RUN? (UNIT 9)	0
8	MET.DATA ON CARDS? (FROM UNIT 11 OTHERWISE)	1
9	READ HOURLY PT. SOURCE' EMISSIONS (UNIT 15).	0
10	READ HOURLY AREA SOURCE EMISSIONS (UNIT 16).	0
11	SPECIFY SIGNIF PT. SOURCES.	1
12	SPECIFY SIGNIF. AREA SOURCES.	0
13	NOT USED THIS VERSION	3
	RECEPTOR OPTIONS	
14	WILL YOU ENTER RECEPTORS BY SPECIFYING COORDINATES?	1
15	DO YOU WANT RAM TO GENERATE RECEPTORS DOWNWIND OF SIGNIF. PT. SOURCES? (WILL DO SO BY AVG-PERIOD)	1
16	DO YOU WANT RAM TO GENERATE RECEPTORS DOWNWIND OF SIGNIF. AREA SOURCES?(WILL DO SO BY AVG-PERIOD)	1
17	DO YOU WANT RAM TO GENERATE A HONEYCOMB ARRAY OF RECEPTORS TO COVER A SPECIFIC AREA?	1
18	WILL YOU INPUT RADIAL DISTANCES(UP TO 5) TO GENERATE A POLAR COORDINATE RECEPTOR ARRAY (36 RECEPTORS FOR EACH DISTANCE)	0
19	NOT USED THIS VERSION	9
	PRINTED OUTPUT OPTIONS	
20	DELETE POINT SOURCE LIST	0
21	DELETE AREA SOURCE LIST AND MAP	0
22	DELETE EMISSIONS WITH HEIGHT TABLE	0
23	DELETE RESULANT MET. DATA SUMMARY FOR AVERAGING PERIOD	0

24	DELETE ALL HOURLY OUTPUT (PT.,AREA,& SUMMARIES)	0
25	DELETE HOURLY POINT CONTRIBUTIONS	0
26	DELETE MET. DATA ON HR. PT. CONTRIB.	0
27	DELETE PLUME HT. AND DIST. TO FINAL RISE ON HR. PT. CONTRIB.	0
28	DELETE HOURLY AREA CONTRIBUTIONS	0
29	DELETE MET. DATA ON HR. AREA CONTRIB.	0
30	DELETE HOURLY SUMMARY.	0
31	DELETE MET. 'DATA ON HOURLY SUMMARY.	0
32	DELETE ALL AVG-PERIOD OUTPUT.	0
33	DELETE POINT AVG-PERIOD CONTRIBUTIONS.	0
34	DELETE AREA AVG-PERIOD CONTRIBUTIONS.	0
35	DELETE AVG-PERIOD SUMMARY.	0
36	DELETE AVERAGE CONCENTRATIONS & HI-FIVE TABLE.	1
37	NOT USED THIS VERSION.	7
38	NOT USED THIS VERSION.	8

OTHER CONTROL AND OUTPUT OPTIONS:

39	RUN IS PART OF A SEGMENTED RUN.	0
40	WRITE PARTIAL CONC.TO DISK OR TAPE (UNIT 10).	0
41	WRITE HOURLY CONC.TO DISK OR TAPE (UNIT 12).	0
42	WRITE AVG-PERIOD CONC.TO DISK OR TAPE (UNIT 13).	0
43	PUNCH AVERAGING-PERIOD CONC. ON CARDS (UNIT 1).	0
44	NOT USED THIS VERSION.	4
45	NOT USED THIS VERSION.	5
46	NOT USED THIS VERSION.	6
47	NOT USED THIS VERSION.	7
48	NOT USED THIS VERSION.	8
49	NOT USED THIS VERSION.	9
50	NOT USED THIS VERSION.	0

ANEMOMETER HEIGHT= 10.00
WIND PROFILE WITH HEIGHT EXPONENTS CORRESPONDING TO STABILITY ARE AS FOLLOWS:
FOR STABILITY A: .15 , B: .15 , C: .20 D: .25 E: .40 F: .60

POINT SOURCE INFORMATION

SOURCE	EAST COORD (USER UNITS)	NORTH COORD (USER UNITS)	SO2(G/SEC) EMISSIONS	PART(G/SEC) EMISSIONS	STACK HT(M)	STACK TEMP(K)	STACK DIAM(M)	STACK VEL(M/SEC)	POTEN. IMPACT (MICRO G/M**3)	EFF HT(M)	BUOY FLUX F M**4/S**3
1 PLANT 1	579.500	4406.750	232.365	13.335	82.90	513.10	3.50	13.70	155.805	370.460	176.467
2 PLANT 2	575.250	4405.250	150.465	57.005	76.20	464.30	3.20	12.50	144.901	299.488	115.773
3 PLANT 3	571.250	4407.000	19.005	3.255	25.90	477.60	1.00	15.80	199.064	80.256	14.971
4 PLANT 4	571.750	4402.250	81.060	28.350	40.80	499.80	2.80	17.60	82.104	291.015	139.965
5 PLANT 5	579.500	4403.250	26.145	5.145	18.30	533.20	.60	14.70	818.139	45.144	5.844
6 PLANT 6	567.140	4400.890	2.560	.000	26.50	505.00	1.04	3.81	72.298	47.606	4.241
7 PLANT 7	564.700	4407.500	36.430	.000	48.80	464.00	3.05	18.60	31.988	316.174	156.325
8 PLANT 8	577.450	4401.350	33.640	.000	26.50	428.00	1.68	5.02	461.534	69.507	10.956
9 PLANT 9	576.750	4400.700	38.800	.000	6.00	654.00	.79	24.89	448.911	76.111	21.021
10 PLANT 10	580.100	4412.000	299.500	.000	93.00	405.00	4.88	12.59	171.832	405.998	203.266
11 PLANT 11	583.000	4400.900	16.740	.000	18.10	506.00	1.37	4.23	389.308	52.685	8.193
12 PLANT 12	574.000	4398.000	226.200	.000	93.60	483.00	4.88	12.59	97.496	480.294	289.141

SIGNIFICANT SO2 POINT SOURCES

RANK	CHI-MAX (MICROGRAMS/M**3)	SOURCE NO.

1	818.14	5
2	461.53	8
3	448.91	9
4	389.31	11
5	199.06	3
6	171.83	10
7	155.81	1
8	144.90	2
9	97.50	12
10	82.10	4
11	72.30	6
12	31.99	7

AREA SOURCE INFORMATION

SOURCE	EAST COORD (USER UNITS)	NORTH COORD (USER UNITS)	SO2 EMISSIONS (GRAMS/M**2/SEC)	PART EMISSIONS (GRAMS/M**2/SEC)	SIDE LENGTH (USER UNITS)	EFFECTIVE HEIGHT (METERS)	SIGNIFICANCE (G/M/SEC)
1 AONE	570.000	4400.000	3.0164-008	.0000	4.000	10.000	1.9418-004
2 ATWO	574.000	4400.000	2.9440-007	.0000	2.000	10.000	9.4759-004
3 ATHREE	576.000	4400.000	6.0328-007	.0000	2.000	12.000	1.9418-003
4 AFOUR	578.000	4400.000	8.5425-007	.0000	2.000	15.000	2.7496-003
5 AFIVE	578.000	4402.000	3.0406-007	.0000	2.000	10.000	9.7866-004
6 ASIX	574.000	4402.000	.0000	.0000	4.000	.000	.0000
7 ASEVEN	570.000	4404.000	1.0256-007	.0000	4.000	15.000	6.6021-004
8 AEIGHT	574.000	4406.000	2.5097-007	.0000	2.000	10.000	8.0778-004
9 ANINE	578.000	4406.000	2.9923-007	.0000	2.000	12.000	9.6313-004
10 ATEN	580.000	4406.000	2.6641-007	.0000	2.000	20.000	8.5749-004
11 AELEVEN	582.000	4406.000	8.0116-008	.0000	2.000	20.000	2.5787-004
12 ATWELVE	580.000	4404.000	1.6023-007	.0000	2.000	20.000	5.1574-004
13 ATHIRTEEN	582.000	4404.000	1.8340-007	.0000	2.000	20.000	5.9030-004
14 AFOURTEEN	580.000	4402.000	4.9228-008	.0000	2.000	20.000	1.5845-004
15 AFIFTEEN	582.000	4402.000	1.4286-007	.0000	2.000	20.000	4.5981-004

AREA SOURCE MAP ARRAY (IA)

```
4    7  7  8  0  9 10 11
3    7  7  6  6  0 12 13
2    1  1  6  6  5 14 15
1    1  1  2  3  4  0  0

     1  2  3  4  5  6  7
```

THE ORIGIN IN INTERNAL UNITS IS (284.00, 2199.00)
THE SIZE OF THE AREA SOURCE ARRAY IS (7, 4)
RMIN= 285.00 RMAX= 292.00 SMIN= 2200.00 SMAX= 2204.00 (IN INTERNAL UNITS)

SIGNIFICANT SO2 AREA SOURCES

RANK	Q*LENGTH (G/M/SEC)	SOURCE NO.
1	2.7496-003	4
2	1.9418-003	3
3	9.7866-004	5

4	9.6313-004	9
5	9.4759-004	2
6	8.5749-004	10
7	8.0778-004	8
8	6.6021-004	7
9	5.9030-004	13
10	5.1574-004	12

TOTAL SO2 EMISSION AND CUMULATIVE FRACTION ACCORDING TO HEIGHT

HEIGHT(M)	TOTAL POINT EMISSIONS(G/S)	CUMULATIVE FRACTION	TOTAL AREA EMISSIONS(G/S)	CUMULATIVE FRACTION
0 - 5	.00	.000	.00	.000
6 - 10	38.80	.033	10.05	.241
11 - 15	.00	.033	22.45	.780
16 - 20	42.88	.070	9.14	1.000
21 - 25	.00	.070	.00	1.000
26 - 30	55.20	.118	.00	1.000
31 - 35	.00	.118	.00	1.000
36 - 40	.00	.118	.00	1.000
41 - 45	81.06	.187	.00	1.000
46 - 50	36.43	.219	.00	1.000
51 - 55	.00	.219	.00	1.000
56 - 60	.00	.219	.00	1.000
61 - 65	.00	.219	.00	1.000
66 - 70	.00	.219	.00	1.000
71 - 75	.00	.219	.00	1.000
76 - 80	150.47	.348	.00	1.000
81 - 85	232.36	.548	.00	1.000
86 - 90	.00	.548	.00	1.000
91 - 95	525.70	1.000	.00	1.000
96 -100	.00	1.000	.00	1.000
TOTAL	1162.91		41.64	

ADDITIONAL INFORMATION ON SOURCES.

POINT SOURCE INFORMATION

EMISSION INFORMATION FOR 12 (NPT) POINT SOURCES HAS BEEN INPUT
5 SIGNIFICANT POINT SOURCES (NSIGP) ARE TO BE USED FOR THIS RUN

USER SPECIFIED 1 (NPT) SIGNIFICANT POINT SOURCES AS LISTED BY POINT SOURCE NUMBER:
7
THE ORDER OF SIGNIFICANCE (IMPS) FOR 25 OR LESS POINT SOURCES USED IN THIS RUN AS LISTED BY POINT SOURCE NUMBER:
7 5 8 9 11

AREA SOURCE INFORMATION

EMISSION INFORMATION FOR 15 (NAS) AREA SOURCES HAVE BEEN DETERMINED BY RAM
10 SIGNIFICANT AREA SOURCES (NSIGA) ARE TO BE USED FOR THIS RUN
NUMBER OF AREA HEIGHT CLASSES (NHTS)= 3
REPRESENTATIVE AREA SOURCE HEIGHTS FOR EACH HEIGHT CLASS (HINT) IN METERS = 11.00 15.00 20.00
BREAK POINT HEIGHT BETWEEN THE AREA HEIGHT CLASSES (BPH) IN METERS = 13.00 17.00
FRACTION OF AREA SOURCE HEIGHT WHICH IS PHYSICAL HEIGHT (FH) = .750
LIMIT OF DISTANCE FOR AREA SOURCE INTEGRATION TABLES (XLIM) IN USER UNITS = 25.000

BOUNDARIES OF THE AREA SOURCE GRID IN USER UNITS:
RMIN= 570.000 RMAX= 584.000 SMIN= 4400.000 SMAX= 4408.000
SIZE(IRSIZE X ISSIZE) OF AREA SOURCE MAP ARRAY(IA) IN INTERNAL UNITS = 7 EAST-WEST 'BY 4 NORTH-SOUTH
THE ORDER OF SIGNIFICANCE (IMAS) FOR 10 OR LESS AREA SOURCE IS LISTED BY AREA SOURCE NUMBER:
4 3 5 9 2 10 8 7 13 12

RECEPTOR INFORMATION

RECEPTOR	IDENTIFICATION	EAST COORD (USER UNITS)	NORTH COORD (USER UNITS)
1 I	RECEP 1	566.000	4405.000
2 I	RECEP 2	564.000	4401.500

INPUT MET DATA FOR 2-HR PERIOD STARTING AT HOUR: 1, YEAR 73, JULIAN DAY 1

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (DEG-K)	STABILITY CLASS
1	33.00	6.17	429.11	269.82	4
2	23.00	4.63	401.70	271.48	4

RESULTANT MET CONDITIONS

WIND DIRECTION= 28.71 RESULTANT WIND SPEED= 5.38
AVERAGE WIND SPEED= 5.40 AVERAGE TEMP= 270.65
WIND PERSISTENCE= .996 MODAL STABILITY= 4

SIGNIFICANT POINT RECEPTORS

RECEPTOR #	EAST	NORTH	PREDICTED MAX CONC. (MICROGRAMS/M**3)	MAX. DIST (KM)	EFF. HT (M)	U(PHY HT) (M/SEC)
3 P 7	564.431	4407.008	39.39	.902	156.385	8.026
4 P 7	564.161	4406.517		1.804	156.385	8.026
5 P 5	579.451	4403.160	839.47	.166	32.007	6.281
6 P 5	579.401	4403.069		.331	32.007	6.281
7 P 8	577.376	4401.214	448.58	.249	47.506	6.890
8 P 8	577.301	4401.078		.499	47.506	6.890
9 P 9	576.668	4400.550	619.39	.276	52.296	4.753
10 P 9	576.585	4400.400		.551	52.296	4.753
11 P 11	582.944	4400.798	427.63	.187	35.952	6.263
12 P 11	582.888	4400.696		.374	35.952	6.263

SIGNIFICANT AREA SOURCE RECEPTORS

RECEPTOR #	EAST	NORTH
13 A 4	578.420	4399.941
14 A 3	576.426	4399.953
15 A 5	578.431	4401.961
16 A 9	578.426	4405.953
17 A 2	574.431	4399.961
18 A 10	580.409	4405.920
19 A 8	574.431	4405.961
20 A 7	570.872	4403.941
21 A 13	582.409	4403.920
22 A 12	580.409	4403.920

GENERATED HONEYCOMB RECEPTORS

THE AREA TO BE COVERED BY HONEYCOMB RECEPTORS IS BOUNDED BY:
RMIN= 570.000 RMAX= 580.000 SMIN= 4400.000 SMAX= 4408.000

DISTANCE BETWEEN HONEYCOMB RECEPTORS(GRIDSP) IN USER UNITS= 2.000

RECEPTOR	EAST	NORTH
23 H	572.000	4400.866
24 H	574.000	4400.866
25 H	580.000	4400.866
26 H	571.000	4402.598

27	H	573.000	4402.598
28	H	575.000	4402.598
29	H	577.000	4402.598
30	H	572.000	4404.330
31	H	574.000	4404.330
32	H	576.000	4404.330
33	H	578.000	4404.330
34	H	571.000	4406.062
35	H	573.000	4406.062
36	H	577.000	4406.062
37	H	572.000	4407.794
38	H	574.000	4407.794
39	H	576.000	4407.794
40	H	578.000	4407.794
41	H	580.000	4407.794

PLEASE NOTE: THE RECEPTOR NUMBERS AND LOCATIONS GENERATED FOR THIS AVERAGING TIME PERIOD ARE DIFFERENT FROM THOSE GENERATED FOR THE PRECEEDING AVERAGING PERIOD.

TEST RUN: ALFREIDA D. RANKINS
EMISSIONS: TEST CITY, 1973
SFC MET DATA: TEST CITY 1973; UPPER AIR: TEST CITY 1973

SO2 CONTRIBUTION(MICROGRAMS/M**3) FROM SIGNIFICANT POINT SOURCES 73/ 1 : HOUR 1

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
1	33.00	6.17	429.11	269.82	4

ANEMOM HT: 10.00 PL: .25

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	169.06	144.92	48.67	132.04	30.33	33.08	143.20	42.06	46.58	187.32
FINAL HT (M)	31.28	205.53								
DIST FIN HT (KM)	.981	.838	.286	.896	.156	.129	.945	.242	.342	1.075
DIST FIN HT (KM)	.195	1.202								

RANK	1	2	3	4	5	TOTAL SIGNIF POINT	TOTAL ALL POINT SOURCES
SOURCE #	7	5	8	9	11		
RECEP #							
1	.000	.000	.000	.000	.000	.000	.000
2	.000	.000	.000	.000	.000	.000	.000
3	35.799	.000	.000	.000	.000	35.799	35.799
4	18.203	.000	.000	.000	.000	18.203	18.203
5	.000	723.757	.000	.000	.000	723.757	723.757
6	.000	368.049	.000	.000	.000	368.049	368.049
7	.000	.357	431.406	.000	.000	431.762	432.202
8	.000	.464	204.270	.000	.000	204.734	205.191
9	.000	.137	7.947	701.982	.000	710.066	712.682
10	.000	.181	9.385	281.595	.000	291.161	293.761
11	.000	.000	.000	.000	433.349	433.349	433.349
12	.000	.000	.000	.000	194.826	194.826	194.826
13	.000	.084	.000	.000	.000	.084	.084
14	.000	.536	13.504	35.822	.000	49.862	51.679
15	.000	7.980	.000	.000	.000	7.980	7.980
16	.000	.000	.000	.000	.000	.000	.754
17	.000	.000	.000	.000	.000	.000	13.839
18	.000	.000	.000	.000	.000	.000	.000
19	.000	.000	.000	.000	.000	.000	.563
20	.000	.000	.000	.000	.000	.000	.000
21	.000	.000	.000	.000	.000	.000	.000
22	.000	.000	.000	.000	.000	.000	.000
23	.000	.000	.000	.000	.000	.000	26.205
24	.000	.000	.000	.000	.000	.000	8.605
25	.000	.000	.000	.000	.000	.000	.000
26	.000	.000	.000	.000	.000	.000	.021
27	.000	.000	.000	.000	.000	.000	19.452
28	.000	.000	.000	.000	.000	.000	9.412
29	.000	.000	.000	.000	.000	.000	29.518
30	.000	.000	.000	.000	.000	.000	.003
31	.000	.000	.000	.000	.000	.000	7.218
32	.000	.000	.000	.000	.000	.000	10.968
33	.000	.000	.000	.000	.000	.000	45.548

34	.000	.000	.000	.000	.000	.000	.820
35	.000	.000	.000	.000	.000	.000	.000
36	.000	.000	.000	.000	.000	.000	12.956
37	.000	.000	.000	.000	.000	.000	.000
38	.000	.000	.000	.000	.000	.000	.003
39	.000	.000	.000	.000	.000	.000	.942
40	.000	.000	.000	.000	.000	.000	15.210
41	.000	.000	.000	.000	.000	.000	.000

TEST RUN: ALFREIDA D. RANKINS
EMISSIONS: TEST CITY, 1973
SFC MET DATA: TEST CITY 1973; UPPER AIR: TEST CITY 1973

SO2 CONTRIBUTION(MICROGRAMS/M**3) FROM SIGNIFICANT AREA SOURCES 73/ 1 : HOUR 1

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
1	33.00	6.17	429.11	269.82	4

ANEMOM HT: 10.00 PL: .25

AREA HTS: 10.588, 14.201, 18.661; SEPARATION HTS: 12.400, 15.991

RANK	1	2	3	4	5	6	7	8	9	10	TOTAL SIGNIF AREA	TOTAL ALL AREA SOURCES
SOURCE #	4	3	5	9	2	10	8	7	13	12		
RECEP #												
1	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
2	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
3	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
4	.000	.000	.000	.000	.000	.000	.000	.000	.000	.242	1.421	1.467
5	.000	.000	.999	.000	.000	.181	.000	.000	.000	.235	1.447	1.493
6	.000	.000	1.032	.000	.000	.179	.000	.000	.000	.074	2.728	2.728
7	.000	1.847	.485	.000	.000	.323	.000	.000	.000	.076	2.828	2.828
8	.000	1.957	.473	.000	.000	.322	.000	.000	.000	.031	2.960	2.960
9	.000	2.288	.321	.000	.000	.320	.000	.000	.000	.033	3.043	3.043
10	.000	2.365	.325	.000	.000	.319	.000	.000	.000	.000	.000	.048
11	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.045
12	.000	.000	.000	.000	.000	.000	.000	.000	.061	.143	3.254	3.400
13	2.962	.000	.088	.000	.000	.000	.000	.000	.000	.053	3.089	3.089
14	.000	2.352	.367	.000	.000	.317	.000	.000	.000	.164	1.775	1.801
15	.097	.000	1.276	.000	.000	.238	.000	.000	.000	.000	1.166	1.166
16	.000	.000	.000	1.166	.000	.000	.000	.000	.000	.000	1.634	1.634
17	.000	.000	.000	.399	1.235	.000	.000	.000	.000	.049	.846	.846
18	.000	.000	.000	.000	.000	.798	.000	.000	.000	.000	1.053	1.053
19	.000	.000	.000	.000	.000	.000	1.053	.000	.000	.000	.495	.512
20	.000	.000	.000	.000	.000	.000	.000	.495	.000	.000	.549	.612
21	.000	.000	.000	.000	.000	.000	.000	.000	.549	.000	.544	.641
22	.000	.000	.000	.000	.000	.065	.000	.000	.000	.480	.183	.342
23	.000	.000	.000	.000	.000	.000	.183	.000	.000	.000	1.270	1.270
24	.000	.000	.000	.195	1.075	.000	.000	.000	.000	.000	.227	.349
25	.000	.000	.000	.000	.000	.000	.000	.000	.227	.000	.371	.489
26	.000	.000	.000	.000	.000	.000	.141	.229	.000	.000	.235	.354
27	.000	.000	.000	.000	.000	.000	.224	.012	.000	.000	.161	.161
28	.000	.000	.000	.161	.000	.000	.000	.000	.000	.000	.382	.382
29	.000	.000	.000	.255	.000	.128	.000	.000	.000	.000	.570	.570
30	.000	.000	.000	.000	.000	.000	.110	.460	.000	.000	.275	.275
31	.000	.000	.000	.000	.000	.000	.275	.000	.000	.000	.125	.125
32	.000	.000	.000	.125	.000	.000	.000	.000	.000	.000	.412	.412
33	.000	.000	.000	.314	.000	.099	.000	.000	.000	.000	.379	.379
34	.000	.000	.000	.000	.000	.000	.000	.379	.000	.000	.432	.432
35	.000	.000	.000	.000	.000	.000	.084	.348	.000	.000	.096	.096
36	.000	.000	.000	.096	.000	.000	.000	.000	.134	.000	.134	.134
37	.000	.000	.000	.000	.000	.000	.000	.134	.000	.000	.436	.436
38	.000	.000	.000	.000	.000	.000	.436	.000	.000	.000		

39	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.000	.000	.000	.497	.000	.000	.000	.000	.000	.000	.497	.497
41	.000	.000	.000	.000	.000	.264	.000	.000	.000	.000	.264	.264

TEST RUN: ALFREIDA D. RANKINS
EMISSIONS: TEST CITY, 1973
SFC MET DATA: TEST CITY 1973; UPPER AIR: TEST CITY 1973

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 73/ 1 : HOUR 1

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
1	33.00	6.17	429.11	269.82	4

ANEMOM HT: 10.00 PL: .25

AREA HTS: 10.588, 14.201, 18.661; SEPARATION HTS: 12.400, 15.991

RECEPTOR NO.		EAST	NORTH	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL POINT SOURCES	TOTAL FROM SIGNIF AREA SOURCES	TOTAL FROM ALL AREA SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1 I 0	RECEP 1	566.000	4405.000	.0000	.0000	.0000	.0000	.0000	41
2 I 0	RECEP 2	564.000	4401.500	.0000	.0000	.0000	.0000	.0000	40
3 P 7		564.431	4407.008	35.7987	35.7987	.0000	.0000	35.7987	11
4 P 7		564.161	4406.517	18.2026	18.2026	.0000	.0000	18.2026	15
5 P 5		579.451	4403.160	723.7571	723.7571	1.4215	1.4667	725.2238	1
6 P 5		579.401	4403.069	368.0487	368.0487	1.4465	1.4929	369.5415	5
7 P 8		577.376	4401.214	431.7621	432.2024	2.7281	2.7281	434.9305	3
8 P 8		577.301	4401.078	204.7343	205.1913	2.8280	2.8280	208.0193	7
9 P 9		576.668	4400.550	710.0658	712.6823	2.9602	2.9602	715.6425	2
10 P 9		576.585	4400.400	291.1613	293.7612	3.0427	3.0427	296.8038	6
11 P 11		582.944	4400.798	433.3493	433.3493	.0000	.0483	433.3975	4
12 P 11		582.888	4400.696	194.8263	194.8263	.0000	.0445	194.8708	8
13 A 4		578.420	4399.941	.0837	.0837	3.2543	3.4000	3.4837	24
14 A 3		574.426	4399.953	49.8623	51.6786	3.0888	3.0888	54.7674	9
15 A 5		578.431	4401.961	7.9795	7.9803	1.7745	1.8009	9.7811	21
16 A 9		578.426	4405.953	.0000	.7536	1.1665	1.1665	1.9200	25
17 A 2		574.431	4399.961	.0000	13.8389	1.6338	1.6338	15.4727	17
18 A 10		580.409	4405.920	.0000	.0000	.8464	.8464	.8464	29
19 A 8		574.431	4405.961	.0000	.5625	1.0529	1.0529	1.6154	26
20 A 7		570.872	4403.941	.0000	.0000	.4950	.5121	.5121	33
21 A 13		582.409	4403.920	.0000	.0000	.5493	.6120	.6120	31
22 A 12		580.409	4403.920	.0000	.0000	.5444	.6414	.6414	30
23 H 0		572.000	4400.866	.0000	26.2047	.1834	.3421	26.5468	13
24 H 0		574.000	4400.866	.0000	8.6048	1.2702	1.2702	9.8749	20
25 H 0		580.000	4400.866	.0000	.0000	.2272	.3489	.3489	37
26 H 0		571.000	4402.598	.0000	.0214	.3706	.4890	.5104	34
27 H 0		573.000	4402.598	.0000	19.4521	.2353	.3536	19.8057	14
28 H 0		575.000	4402.598	.0000	9.4123	.1610	.1610	9.5734	22
29 H 0		577.000	4402.598	.0000	29.5180	.3822	.3822	29.9002	12
30 H 0		572.000	4404.330	.0000	.0028	.5696	.5696	.5724	32
31 H 0		574.000	4404.330	.0000	7.2180	.2753	.2753	7.4933	23
32 H 0		576.000	4404.330	.0000	10.9682	.1248	.1248	11.0931	19
33 H 0		578.000	4404.330	.0000	45.5482	.4121	.4121	45.9603	10
34 H 0		571.000	4406.062	.0000	.8200	.3788	.3788	1.1988	27
35 H 0		573.000	4406.062	.0000	.0001	.4319	.4319	.4320	36
36 H 0		577.000	4406.062	.0000	12.9563	.0959	.0959	13.0522	18
37 H 0		572.000	4407.794	.0000	.0000	.1342	.1342	.1342	39
38 H 0		574.000	4407.794	.0000	.0000	.4364	.4364	.4364	35
39 H 0		576.000	4407.794	.0000	.9420	.0000	.0000	.9420	28
40 H 0		578.000	4407.794	.0000	15.2102	.4971	.4971	15.7073	16
41 H 0		580.000	4407.794	.0000	.0000	.2645	.2645	.2645	38

TEST RUN: ALFREIDA D. RANKINS
EMISSIONS: TEST CITY, 1973
SFC MET DATA: TEST CITY 1973; UPPER AIR: TEST CITY 1973

SO2 CONTRIBUTION(MICROGRAMS/M**3) FROM SIGNIFICANT POINT SOURCES 73/ 1 : HOUR 2

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS									
2	23.00	4.63	401.70	271.48	4	ANEMOM HT: 10.00			PL: .25					
		1	2	3	4	5	6	7	8	9	10			
FINAL HT (M)		199.03	169.69	56.06	161.86	34.25	36.25	173.95	48.72	59.91	222.05			
FINAL HT (M)		36.91	246.37											
DIST FIN HT (KM)		.978	.835	.285	.894	.156	.128	.941	.240	.341	1.070			
DIST FIN HT (KM)		.194	1.198											

RANK	1	2	3	4	5	TOTAL SIGNIF POINT	TOTAL ALL POINT SOURCES
SOURCE #	7	5	8	9	11		
RECEP #							
1	.000	.000	.000	.000	.000	.000	.000
2	.003	.000	.000	.000	.000	.003	.003
3	29.231	.000	.000	.000	.000	29.231	29.231
4	18.745	.000	.000	.000	.000	18.745	18.745
5	.000	684.939	.000	.000	.000	684.939	684.941
6	.000	417.785	.000	.000	.000	417.785	417.788
7	.000	.001	399.482	.000	.000	399.483	435.730
8	.000	.001	228.979	.000	.000	228.980	265.410
9	.000	.000	.297	571.809	.000	572.106	609.730
10	.000	.000	.484	294.201	.000	294.685	331.675
11	.000	.000	.000	.000	394.135	394.135	394.135
12	.000	.000	.000	.000	217.816	217.816	217.816
13	.000	5.793	.000	.000	.000	5.793	5.853
14	.900	.001	2.253	104.778	.000	107.032	143.421
15	.000	.555	.000	.000	.000	.555	3.605
16	.000	.000	.000	.000	.000	.000	8.777
17	.000	.000	.000	.000	.000	.000	22.261
18	.000	.000	.000	.000	.000	.000	.000
19	.000	.000	.000	.000	.000	.000	.000
20	.000	.000	.000	.000	.000	.000	.067
21	.000	.000	.000	.000	.000	.000	.000
22	.000	.000	.000	.000	.000	.000	.000
23	.000	.000	.000	.000	.000	.000	.190
24	.000	.000	.000	.000	.000	.000	14.746
25	.000	.000	.000	.000	.000	.000	.000
26	.000	.000	.000	.000	.000	.000	.001
27	.000	.000	.000	.000	.000	.000	.102
28	.000	.000	.000	.000	.000	.000	8.552
29	.000	.000	.000	.000	.000	.000	22.515
30	.000	.000	.000	.000	.000	.000	.000
31	.000	.000	.000	.000	.000	.000	.001
32	.000	.000	.000	.000	.000	.000	13.845
33	.000	.000	.000	.000	.000	.000	22.552

34	.000	.000	.000	.000	.000	.000	14.716
35	.000	.000	.000	.000	.000	.000	.000
36	.000	.000	.000	.000	.000	.000	23.870
37	.000	.000	.000	.000	.000	.000	.000
38	.000	.000	.000	.000	.000	.000	.000
39	.000	.000	.000	.000	.000	.000	.000
40	.000	.000	.000	.000	.000	.000	43.276
41	.000	.000	.000	.000	.000	.000	.001

TEST RUN: ALFREIDA D. RANKINS
EMISSIONS: TEST CITY, 1973
SFC MET DATA: TEST CITY 1973; UPPER AIR: TEST CITY 1973

SO2 CONTRIBUTION(MICROGRAMS/M**3) FROM SIGNIFICANT AREA SOURCES 73/ 1 : HOUR 2

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
2	23.00	4.63	401.70	271.48	4

ANEMOM HT: 10.00 PL: .25

AREA HTS: 11.366, 15.182, 19.879; SEPARATION HTS: 13.282, 17.069

RANK	1	2	3	4	5	6	7	8	9	10	TOTAL SIGNIF AREA	TOTAL ALL AREA SOURCES
SOURCE #	4	3	5	9	2	10	8	7	13	12		
RECEP #												
1	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
2	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
3	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
4	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
5	.000	.000	1.255	.000	.000	.425	.000	.000	.000	.220	1.901	1.901
6	.000	.000	1.304	.000	.000	.425	.000	.000	.000	.212	1.941	1.941
7	.000	2.319	.412	.363	.000	.123	.000	.000	.000	.000	3.217	3.217
8	.000	2.463	.391	.373	.000	.114	.000	.000	.000	.000	3.341	3.341
9	.000	2.894	.090	.511	.000	.000	.000	.000	.000	.000	3.495	3.495
10	.000	2.995	.077	.509	.000	.000	.000	.000	.000	.000	3.581	3.581
11	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.170
12	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.169
13	3.831	.000	.489	.000	.000	.403	.000	.000	.000	.251	4.973	4.987
14	.000	3.050	.097	.505	.000	.000	.000	.000	.000	.000	3.652	3.652
15	.073	.000	1.648	.000	.000	.417	.000	.000	.000	.044	2.182	2.182
16	.000	.000	.000	1.513	.000	.000	.000	.000	.000	.000	1.513	1.513
17	.000	.000	.000	.000	1.596	.000	.000	.000	.000	.000	1.596	1.596
18	.000	.000	.000	.000	.000	1.030	.000	.000	.000	.047	1.077	1.077
19	.000	.000	.000	.000	.000	.000	1.361	.000	.000	.000	1.361	1.361
20	.000	.000	.000	.000	.000	.000	.000	.639	.000	.000	.639	.657
21	.000	.000	.000	.000	.000	.000	.000	.000	.709	.000	.709	.860
22	.000	.000	.000	.000	.000	.364	.000	.000	.000	.620	.984	1.019
23	.000	.000	.000	.000	.000	.000	.451	.138	.000	.000	.589	.792
24	.000	.000	.000	.000	1.356	.000	.000	.000	.000	.000	1.356	1.356
25	.000	.000	.000	.000	.000	.000	.000	.000	.061	.201	.262	.474
26	.000	.000	.000	.000	.000	.000	.000	.362	.000	.000	.362	.512
27	.000	.000	.000	.000	.000	.000	.466	.095	.000	.000	.561	.711
28	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.000	.000	.000	.531	.000	.000	.000	.000	.000	.000	.531	.531
30	.000	.000	.000	.000	.000	.000	.000	.636	.000	.000	.636	.636
31	.000	.000	.000	.000	.000	.000	.494	.000	.000	.000	.494	.494
32	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.000	.000	.000	.563	.000	.000	.000	.000	.000	.000	.563	.563
34	.000	.000	.000	.000	.000	.000	.000	.479	.000	.000	.479	.479
35	.000	.000	.000	.000	.000	.000	.000	.479	.000	.000	.479	.479
36	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.000	.000	.000	.000	.000	.000	.000	.159	.000	.000	.159	.159
38	.000	.000	.000	.000	.000	.000	.526	.000	.000	.000	.526	.526

39	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.000	.000	.000	.599	.000	.000	.000	.000	.000	.000	.599	.599
41	.000	.000	.000	.000	.000	.307	.000	.000	.000	.000	.307	.307

TEST RUN: ALFREIDA D. RANKINS
EMISSIONS: TEST CITY, 1973
SFC MET DATA: TEST CITY 1973; UPPER AIR: TEST CITY 1973

SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 73/ 1 : HOUR 2

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
2	23.00	4.63	401.70	271.48	4

ANEMOM HT: 10.00 PL: .25

AREA HTS: 11.366, 15.182, 19.879; SEPARATION HTS: 13.282, 17.069

RECEPTOR NO.		EAST	NORTH	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL POINT SOURCES	TOTAL FROM SIGNIF AREA SOURCES	TOTAL FROM ALL AREA SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1 I 0	RECEP 1	566.000	4405.000	.0000	.0000	.0000	.0000	.0000	41
2 I 0	RECEP 2	564.000	4401.500	.0025	.0025	.0000	.0000	.0025	39
3 P 7		564.431	4407.008	29.2308	29.2308	.0000	.0000	29.2308	11
4 P 7		564.161	4406.517	18.7447	18.7447	.0000	.0000	18.7447	16
5 P 5		579.451	4403.160	684.9385	684.9407	1.9007	1.9007	686.8414	1
6 P 5		579.401	4403.069	417.7846	417.7882	1.9407	1.9407	419.7289	4
7 P 8		577.376	4401.214	399.4826	435.7305	3.2174	3.2174	438.9479	3
8 P 8		577.301	4401.078	228.9802	265.4095	3.3406	3.3406	268.7501	7
9 P 9		576.668	4400.550	572.1059	609.7302	3.4947	3.4947	613.2249	2
10 P 9		576.585	4400.400	294.6850	331.6750	3.5814	3.5814	335.2564	6
11 P 11		582.944	4400.798	394.1352	394.1352	.0000	.1700	394.3052	5
12 P 11		582.888	4400.696	217.8158	217.8158	.0000	.1692	217.9850	8
13 A 4		578.420	4399.941	5.7934	5.8530	4.9734	4.9866	10.8396	20
14 A 3		576.426	4399.953	107.0322	143.4206	3.6524	3.6524	147.0729	9
15 A 5		578.431	4401.961	.5552	3.6050	2.1820	2.1820	5.7870	23
16 A 9		578.426	4405.953	.0000	8.7774	1.5130	1.5130	10.2905	21
17 A 2		574.431	4399.961	.0000	22.2611	1.5960	1.5960	23.8571	13
18 A 10		580.409	4405.920	.0000	.0000	1.0770	1.0770	1.0770	25
19 A 8		574.431	4405.961	.0000	.0000	1.3605	1.3605	1.3605	24
20 A 7		570.872	4403.941	.0000	.0670	.6390	.6566	.7236	30
21 A 13		582.409	4403.920	.0000	.0000	.7092	.8604	.8604	28
22 A 12		580.409	4403.920	.0000	.0000	.9836	1.0191	1.0191	26
23 H 0		572.000	4400.866	.0000	.1903	.5889	.7921	.9825	27
24 H 0		574.000	4400.866	.0000	14.7456	1.3561	1.3561	16.1017	17
25 H 0		580.000	4400.866	.0000	.0000	.2621	.4738	.4738	36
26 H 0		571.000	4402.598	.0000	.0005	.3618	.5115	.5120	33
27 H 0		573.000	4402.598	.0000	.1024	.5611	.7108	.8131	29
28 H 0		575.000	4402.598	.0000	8.5524	.0000	.0000	8.5524	22
29 H 0		577.000	4402.598	.0000	22.5152	.5312	.5312	23.0464	15
30 H 0		572.000	4404.330	.0000	.0000	.6356	.6356	.6356	31
31 H 0		574.000	4404.330	.0000	.0011	.4943	.4943	.4955	34
32 H 0		576.000	4404.330	.0000	13.8445	.0000	.0000	13.8445	19
33 H 0		578.000	4404.330	.0000	22.5524	.5631	.5631	23.1156	14
34 H 0		571.000	4406.062	.0000	14.7163	.4789	.4789	15.1952	18
35 H 0		573.000	4406.062	.0000	.0000	.4789	.4789	.4789	35
36 H 0		577.000	4406.062	.0000	23.8704	.0000	.0000	23.8704	12
37 H 0		572.000	4407.794	.0000	.0000	.1591	.1591	.1591	38
38 H 0		574.000	4407.794	.0000	.0000	.5260	.5260	.5260	32
39 H 0		576.000	4407.794	.0000	.0001	.0000	.0000	.0001	40
40 H 0		578.000	4407.794	.0000	43.2758	.5992	.5992	43.8750	10
41 H 0		580.000	4407.794	.0000	.0013	.3073	.3073	.3086	37

TEST RUN: ALFREIDA D. RANKINS
EMISSIONS: TEST CITY, 1973
SFC MET DATA: TEST CITY 1973; UPPER AIR: TEST CITY 1973

2-HOUR AVERAGE SO2 CONTRIBUTION(MICROGRAMS/M**3) FROM SIGNIFICANT POINT SOURCES 73/ 1 START HOUR: 1

ANEMOM HT: 10. PL: A- .15 B- .15C- .20 D- .25 E- .40 F- .60

RANK	1	2	3	4	5	TOTAL SIGNIF POINT	TOTAL ALL POINT SOURCES
SOURCE #	7	5	8	9	11		
RECEP #							
1	.000	.000	.000	.000	.000	.000	.000
2	.001	.000	.000	.000	.000	.001	.001
3	32.515	.000	.000	.000	.000	32.515	32.515
4	18.474	.000	.000	.000	.000	18.474	18.474
5	.000	704.348	.000	.000	.000	704.348	704.349
6	.000	392.917	.000	.000	.000	392.917	392.918
7	.000	.179	415.444	.000	.000	415.622	433.966
8	.000	.233	216.625	.000	.000	216.857	235.300
9	.000	.069	4.122	636.895	.000	641.086	661.206
10	.000	.091	4.934	287.898	.000	292.923	312.718
11	.000	.000	.000	.000	413.742	413.742	413.742
12	.000	.000	.000	.000	206.321	206.321	206.321
13	.000	2.939	.000	.000	.000	2.939	2.968
14	.000	.268	7.879	70.300	.000	78.447	97.550
15	.000	4.267	.000	.000	.000	4.267	5.793
16	.000	.000	.000	.000	.000	.000	4.765
17	.000	.000	.000	.000	.000	.000	18.050
18	.000	.000	.000	.000	.000	.000	.000
19	.000	.000	.000	.000	.000	.000	.281
20	.000	.000	.000	.000	.000	.000	.038
21	.000	.000	.000	.000	.000	.000	.000
22	.000	.000	.000	.000	.000	.000	.000
23	.000	.000	.000	.000	.000	.000	13.198
24	.000	.000	.000	.000	.000	.000	11.675
25	.000	.000	.000	.000	.000	.000	.000
26	.000	.000	.000	.000	.000	.000	.011
27	.000	.000	.000	.000	.000	.000	9.777
28	.000	.000	.000	.000	.000	.000	8.902
29	.000	.000	.000	.000	.000	.000	26.017
30	.000	.000	.000	.000	.000	.000	.001
31	.000	.000	.000	.000	.000	.000	3.610
32	.000	.000	.000	.000	.000	.000	12.406
33	.000	.000	.000	.000	.000	.000	34.050
34	.000	.000	.000	.000	.000	.000	7.763
35	.000	.000	.000	.000	.000	.000	.000
36	.000	.000	.000	.000	.000	.000	18.413
37	.000	.000	.000	.000	.000	.000	.000
38	.000	.000	.000	.000	.000	.000	.000
39	.000	.000	.000	.000	.000	.000	.471
40	.000	.000	.000	.000	.000	.000	29.243
41	.000	.000	.000	.000	.000	.000	.001

TEST RUN: ALFREIDA D. RANKINS
EMISSIONS: TEST CITY, 1973
SFC MET DATA: TEST CITY 1973; UPPER AIR: TEST CITY 1973

2-HOUR AVERAGE SO2 CONTRIBUTION(MICROGRAMS/M**3) FROM SIGNIFICANT AREA SOURCES 73/ 1 START HOUR: 1

RANK	1	ANEMOM HT: 10. PL: A- .15	2	3	4	B- .15	5	C- .20	6	D- .25	7	E- .40	8	F- .60	9	10	TOTAL SIGNIF AREA	TOTAL ALL AREA SOURCES
SOURCE #	4		3	5	9		2		10		8		7		13	12		
RECEP #																		
1	.000		.000	.000	.000		.000		.000		.000		.000		.000	.000	.000	.000
2	.000		.000	.000	.000		.000		.000		.000		.000		.000	.000	.000	.000
3	.000		.000	.000	.000		.000		.000		.000		.000		.000	.000	.000	.000
4	.000		.000	.000	.000		.000		.000		.000		.000		.000	.000	.000	.000
5	.000		.000	1.127	.000		.000		.303		.000		.000		.000	.231	1.661	1.684
6	.000		.000	1.168	.000		.000		.302		.000		.000		.000	.224	1.694	1.717
7	.000		2.083	.448	.182		.000		.223		.000		.000		.000	.037	2.973	2.973
8	.000		2.210	.432	.186		.000		.218		.000		.000		.000	.038	3.084	3.084
9	.000		2.591	.206	.255		.000		.160		.000		.000		.000	.016	3.227	3.227
10	.000		2.680	.201	.255		.000		.160		.000		.000		.000	.017	3.312	3.312
11	.000		.000	.000	.000		.000		.000		.000		.000		.000	.000	.000	.109
12	.000		.000	.000	.000		.000		.000		.000		.000		.000	.000	.000	.107
13	3.397		.000	.289	.000		.000		.202		.000		.000		.030	.197	4.114	4.193
14	.000		2.701	.232	.252		.000		.159		.000		.000		.000	.026	3.371	3.371
15	.085		.000	1.462	.000		.000		.328		.000		.000		.000	.104	1.978	1.991
16	.000		.000	.000	1.340		.000		.000		.000		.000		.000	.000	1.340	1.340
17	.000		.000	.000	.199		1.416		.000		.000		.000		.000	.000	1.615	1.615
18	.000		.000	.000	.000		.000		.914		.000		.000		.000	.048	.962	.962
19	.000		.000	.000	.000		.000		.000		1.207		.000		.000	.000	1.207	1.207
20	.000		.000	.000	.000		.000		.000		.000		.567		.000	.000	.567	.584
21	.000		.000	.000	.000		.000		.000		.000		.000		.629	.000	.629	.736
22	.000		.000	.000	.000		.000		.214		.000		.000		.000	.550	.764	.830
23	.000		.000	.000	.000		.000		.000		.317		.069		.000	.000	.386	.567
24	.000		.000	.000	.098		1.215		.000		.000		.000		.000	.000	1.313	1.313
25	.000		.000	.000	.000		.000		.000		.000		.000		.144	.101	.245	.411
26	.000		.000	.000	.000		.000		.000		.071		.296		.000	.000	.366	.500
27	.000		.000	.000	.000		.000		.000		.345		.053		.000	.000	.398	.533
28	.000		.000	.000	.081		.000		.000		.000		.000		.000	.000	.081	.081
29	.000		.000	.000	.393		.000		.064		.000		.000		.000	.000	.457	.457
30	.000		.000	.000	.000		.000		.000		.055		.548		.000	.000	.603	.603
31	.000		.000	.000	.000		.000		.000		.335		.000		.000	.000	.385	.385
32	.000		.000	.000	.062		.000		.000		.000		.000		.000	.000	.062	.062
33	.000		.000	.000	.438		.000		.049		.000		.000		.000	.000	.488	.438
34	.000		.000	.000	.000		.000		.000		.000		.429		.000	.000	.429	.429
35	.000		.000	.000	.000		.000		.000		.042		.413		.000	.000	.455	.455
36	.000		.000	.000	.048		.000		.000		.000		.000		.000	.000	.048	.048
37	.000		.000	.000	.000		.000		.000		.000		.147		.000	.000	.147	.147
38	.000		.000	.000	.000		.000		.000		.481		.000		.000	.000	.481	.481
39	.000		.000	.000	.000		.000		.000		.000		.000		.000	.000	.000	.000
40	.000		.000	.000	.548		.000		.000		.000		.000		.000	.000	.548	.548
41	.000		.000	.000	.000		.000		.286		.000		.000		.000	.000	.286	.286

TEST RUN: ALFREIDA D. RANKINS
EMISSIONS: TEST CITY, 1973
SFC MET DATA: TEST CITY 1973; UPPER AIR: TEST CITY 1973

2-HOUR AVERAGE SO2 SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 73/ 1 START HOUR: 1

ANEMOM HT: 10. PL: A- .15 B- .15 C- .20 D- .25 E- .40 F- .60

RECEPTOR NO.		EAST	NORTH	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL POINT SOURCES	TOTAL FROM SIGNIF AREA SOURCES	TOTAL FROM ALL AREA SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1 I 0	RECEP 1	566.000	4405.000	.0000	.0000	.0000	.0000	.0000	41
2 I 0	RECEP 2	564.000	4401.500	.0013	.0013	.0000	.0000	.0013	40
3 P 7		564.431	4407.008	32.5148	32.5148	.0000	.0000	32.5148	11
4 P 7		564.161	4406.517	18.4737	18.4737	.0000	.0000	18.4737	15
5 P 5		579.451	4403.160	704.3478	704.3489	1.6611	1.6837	706.0326	1
6 P 5		579.401	4403.069	392.9166	392.9184	1.6936	1.7168	394.6352	5
7 P 8		577.376	4401.214	415.6223	433.9664	2.9728	2.9728	436.9392	3
8 P 8		577.301	4401.078	216.8572	235.3004	3.0843	3.0843	238.3847	7
9 P 9		576.668	4400.550	641.0858	661.2062	3.2274	3.2274	664.4337	2
10 P 9		576.585	4400.400	292.9232	312.7181	3.3120	3.3120	316.0301	6
11 P 11		582.944	4400.798	413.7422	413.7422	.0000	.1091	413.8514	4
12 P 11		582.888	4400.696	206.3210	206.3210	.0000	.1069	206.4279	8
13 A 4		578.420	4399.941	2.9385	2.9683	4.1139	4.1933	7.1616	24
14 A 3		576.426	4399.953	78.4472	97.5496	3.3706	3.3706	100.9202	9
15 A 5		578.431	4401.961	4.2674	5.7926	1.9783	1.9914	7.7841	23
16 A 9		578.426	4405.953	.0000	4.7655	1.3397	1.3397	6.1052	25
17 A 2		574.431	4399.961	.0000	18.0500	1.6149	1.6149	19.6649	14
18 A 10		580.409	4405.920	.0000	.0000	.9617	.9617	.9617	28
19 A 8		574.431	4405.961	.0000	.2813	1.2067	1.2067	1.4880	27
20 A 7		570.872	4403.941	.0000	.0335	.5670	.5843	.6179	31
21 A 13		582.409	4403.920	.0000	.0000	.6292	.7362	.7362	30
22 A 12		580.409	4403.920	.0000	.0000	.7640	.8303	.8303	29
23 H 0		572.000	4400.866	.0000	13.1975	.3862	.5671	13.7646	17
24 H 0		574.000	4400.866	.0000	11.6752	1.3131	1.3131	12.9883	18
25 H 0		580.000	4400.866	.0000	.0000	.2447	.4113	.4113	37
26 H 0		571.000	4402.598	.0000	.0110	.3662	.5002	.5112	33
27 H 0		573.000	4402.598	.0000	9.7772	.3982	.5322	10.3094	20
28 H 0		575.000	4402.598	.0000	8.9824	.0805	.0805	9.0629	21
29 H 0		577.000	4402.598	.0000	26.0166	.4567	.4567	26.4733	13
30 H 0		572.000	4404.330	.0000	.0014	.6026	.6026	.6040	32
31 H 0		574.000	4404.330	.0000	3.6096	.3848	.3848	3.9944	26
32 H 0		576.000	4404.330	.0000	12.4064	.0624	.0624	12.4688	19
33 H 0		578.000	4404.330	.0000	34.0503	.4876	.4876	34.5379	10
34 H 0		571.000	4406.062	.0000	7.7681	.4289	.4289	8.1970	22
35 H 0		573.000	4406.062	.0000	.0001	.4554	.4554	.4555	36
36 H 0		577.000	4406.062	.0000	18.4134	.0479	.0479	18.4613	16
37 H 0		572.000	4407.794	.0000	.0000	.1466	.1466	.1466	39
38 H 0		574.000	4407.794	.0000	.0000	.4812	.4812	.4812	34
39 H 0		576.000	4407.794	.0000	.4711	.0000	.0000	.4711	35
40 H 0		578.000	4407.794	.0000	29.2430	.5482	.5482	29.7912	12
41 H 0		580.000	4407.794	.0000	.0007	.2859	.2859	.2865	38

THIS RUN HAS TERMINATED NORMALLY.

```
$FREE 9.

$USE 9.,TPF$

$XQT U.ABS9
```

APRAC1 (VERSION 72245)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 2. GUIDELINE MODELS (1978)
IN UNAMAP (VERSION 4) DEC 80
SOURCE: FILE 9 ON UNAMAP MAGNETIC TAPE FROM NTIS.

SYNOPTIC AIR POLLUTION MODEL

NO. OF LINKS = 1157

ST LOUIS

DATE = 710826 (HOL) NO OF RAOB LEVELS = 11 SFC PRESS = 993.0
SFC MAX TEMP = 302 SFC MIN TEMP = 287

STA 1

HOUR	STB-I	MIX-D	CO-BG	CO-R1	CO-R2	CO-L1	CO-L2
1	5	119.	1.65	2.14	1.87	2.86	2.15
2	5	119.	1.07	1.35	1.20	1.76	1.36
3	4	119.	.38	.49	.43	.66	.49
4	5	119.	1.11	1.50	1.28	2.07	1.50
5	5	119.	2.59	3.74	3.12	5.46	3.77
6	4	305.	3.20	6.72	4.80	11.94	6.80
7	2	491.	1.74	5.88	3.63	12.03	5.99
8	3	677.	.93	2.98	1.86	6.02	3.03
9	1	863.	1.34	6.83	4.60	6.83	4.60
10	1	1049.	.95	4.15	2.41	8.90	4.23
11	1	1235.	.79	3.96	2.23	8.67	4.04
12	2	1328.	.69	2.44	1.48	5.04	2.48
13	3	1328.	.73	2.15	1.37	4.26	2.19
14	3	1421.	.59	1.91	1.19	3.88	1.95
15	3	1514.	.79	2.57	1.60	5.21	2.62
16	3	1328.	1.13	3.85	2.37	7.88	3.92
17	3	1235.	.66	3.49	2.34	3.49	2.34
18	4	1049.	.65	1.51	1.04	2.79	1.53
19	4	770.	.91	2.29	1.73	2.29	1.73
20	4	647.	.97	2.43	1.84	2.43	1.84
21	4	525.	1.06	2.67	2.02	2.67	2.02
22	4	402.	1.08	2.75	2.07	2.75	2.07
23	4	279.	.86	2.11	1.60	2.11	1.60
24	5	157.	1.48	2.80	2.26	2.80	2.26

STA 2

HOUR	STB-I	MIX-D	CO-BG	CO-R1	CO-R2	CO-L1	CO-L2
1	5	119.	1.73	2.34	2.12	2.34	2.12
2	5	119.	1.07	1.42	1.29	1.42	1.29
3	4	119.	.40	.49	.44	.58	.47
4	5	119.	1.16	1.66	1.47	1.66	1.47
5	5	119.	2.76	4.21	3.67	4.21	3.67
6	4	305.	3.56	8.02	6.36	8.02	6.36
7	2	491.	2.03	7.27	5.33	7.27	5.33
8	3	677.	1.25	2.98	2.03	4.52	2.60
9	1	863.	1.58	4.17	2.76	6.48	3.60
10	1	1049.	1.19	3.90	2.42	6.31	3.30
11	1	1235.	1.45	4.13	2.67	6.52	3.54
12	2	1328.	.80	3.02	2.19	3.02	2.19

13	3	1328.	.83	2.63	1.96	2.63	1.96
14	3	1421.	.93	2.05	1.44	3.05	1.80
15	3	1514.	.95	2.46	1.64	3.80	2.13
16	3	1328.	1.38	3.68	2.43	5.73	3.18
17	3	1235.	1.30	2.63	1.90	3.82	2.34
18	4	1049.	.92	1.65	1.25	2.30	1.49
19	4	770.	1.02	1.67	1.31	2.25	1.53
20	4	647.	.97	1.66	1.28	2.28	1.51
21	4	525.	.97	1.73	1.32	2.41	1.56
22	4	402.	1.09	1.87	1.45	2.58	1.70
23	4	279.	.96	1.55	1.23	2.08	1.42
24	5	157.	1.12	1.74	1.40	2.29	1.60

DATE = 710827 (HOL) NO OF RAOB LEVELS = 13 SFC PRESS = 996.5
SFC MAX TEMP = 297 SFC MIN TEMP = 284

HOUR	STA 1 STB-I	MIX-D	CO-BG	CO-R1	CO-R2	CO-L1	CO-L2
1	5	157.	.83	1.45	1.20	1.45	1.20
2	4	157.	.40	.71	.59	.71	.59
3	5	157.	.71	.97	.83	1.34	.97
4	5	157.	1.74	2.40	2.04	3.39	2.42
5	5	157.	2.50	3.65	3.02	5.36	3.68
6	4	157.	2.86	5.79	4.20	10.15	5.87
7	2	437.	2.38	7.35	4.65	14.74	7.48
8	2	625.	.96	6.74	4.39	6.74	4.39
9	1	905.	.70	5.40	3.49	5.40	3.49
10	3	1093.	1.16	4.29	3.01	4.29	3.01
11	3	1093.	.86	5.12	3.39	5.12	3.39
12	3	1186.	1.54	5.87	4.11	5.87	4.11
13	2	1186.	1.27	5.25	3.63	5.25	3.63
14	3	1373.	.81	2.79	1.71	5.75	2.84
15	2	1373.	1.61	6.93	4.77	6.93	4.77
16	3	1373.	.94	3.41	2.06	7.08	3.47
17	4	1373.	1.46	4.28	3.13	4.28	3.13
18	4	1186.	1.38	3.79	2.81	3.79	2.81
19	5	905.	2.67	5.21	4.18	5.21	4.18
20	5	750.	3.01	6.69	5.19	6.69	5.19
21	5	595.	2.78	6.43	4.94	6.43	4.94
22	5	439.	3.85	8.42	6.56	8.42	6.56
23	5	284.	3.05	6.46	5.07	6.46	5.07
24	5	129.	2.23	2.96	2.56	4.05	2.98

HOUR	STA 2 STB-I	MIX-D	CO-BG	CO-R1	CO-R2	CO-L1	CO-L2
1	5	157.	.83	1.12	.96	1.38	1.05
2	4	157.	.49	.64	.56	.77	.61
3	5	157.	.78	1.00	.88	1.19	.95
4	5	157.	1.96	2.52	2.22	3.02	2.40
5	5	157.	2.66	4.12	3.58	4.12	3.58
6	4	157.	3.13	6.84	5.46	6.84	5.46
7	2	437.	2.65	8.95	6.62	8.95	6.62
8	2	625.	2.08	4.81	3.32	7.23	4.21
9	1	905.	1.48	3.70	2.49	5.67	3.21
10	3	1093.	1.35	2.83	2.02	4.14	2.50
11	3	1093.	1.86	3.87	2.77	5.66	3.43
12	3	1186.	1.81	3.85	2.74	5.67	3.41
13	2	1186.	1.29	3.16	2.14	4.83	2.75

14	3	1373.	1.33	3.02	2.10	4.52	2.65
15	2	1373.	1.63	4.14	2.77	6.38	3.59
16	3	1373.	1.59	3.68	2.54	5.54	3.22
17	4	1373.	1.68	3.01	2.29	4.20	2.72
18	4	1186.	1.58	2.72	2.10	3.73	2.47
19	5	905.	2.64	3.84	3.18	4.90	3.57
20	5	750.	4.80	6.53	5.59	8.08	6.15
21	5	595.	4.54	6.26	5.33	7.80	5.89
22	5	439.	6.35	8.50	7.33	10.42	8.03
23	5	284.	4.90	6.51	5.64	7.95	6.16
24	5	129.	2.34	3.27	2.93	3.27	2.93

```
$FREE TPF$.

$ASG,T TPF$.

$ASG,A NTIS*CRSMET.     .CRSTER MET DATA
FAC WARNING        040000000200

$USE 9,NTIS*CRSMET

$XQT U.ABS6
```

```
                    CRSTER (VERSION 80337)
                    AN AIR QUALITY DISPERSION MODEL IN
                    SECTION 2. GUIDELINE MODELS (1978)
                    IN UNAMAP (VERSION 4) DEC 80
                    SOURCE: FILE  6 ON UNAMAP MAGNETIC TAPE FROM NTIS.

PLANT NAME:  EXAMPLE RUN              POLLUTANT: SO2       EMISSION UNITS: GM/SEC    AIR QUALITY UNITS: GM/M**3 12/80
THIS IS A SINGLE SOURCE (CRSTER) MODEL EXAMPLE RUN.
THIS RUN ILLUSTRATES THE USE OF THE FOLLOWING OPTIONS:
*         STANDARD MODEL RUN
*         DAILY MET PRINTOUT
*         RUN FOR TWENTY DAYS
*         UNEVEN RECEPTOR TERRAIN
*         NO HOURLY OUTPUT TAPE
*         RURAL MIXING HEIGHTS
*         VARIABLE AVERAGING TIME
*         MONTHLY VARIATIONS OF Q,V AND T.
CINCINNATI SURFACE
DAYTON UPPER AIR

              MET FILE      REQUESTED
             STN NO. YR    STN NO. YR
 SURFACE      93814  64     93814  64
 UPPER AIR    93815  64     93815  64
PLANT LOCATION: RURAL
ANEMOMETER HEIGHT IS  7.0 METERS
WIND PROFILE EXPONENTS ARE:    .100,   .150,   .200,   .250,   .300,   .300,
NO TAPE OUTPUT
Q VALUES REQUIRE MONTHLY INPUT
V VALUES REQUIRE MONTHLY INPUT
T VALUES REQUIRE MONTHLY INPUT

DAY-- 0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
      0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
      0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 1 1 1 1 1 1  1 1 1 1 0 0 0 0 0 1  1 1 1 1 1 1 1 1 1 0
      0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
      0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
      0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
      0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
      0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0

* * * * * * * * * * * * * * * * * * * *  N O T E  * * * * * * * * * * * * * * * * * * * * * *

      ALL TABLES, INCLUDING SOURCE CONTRIBUTION, THAT CONTAIN "ANNUAL" IN THE HEADING ARE BASED ONLY ON THOSE DAYS

      MARKED BY "1" IN THE ABOVE TABLE
```

RING DISTANCES(KM)= .90 1.50 2.00 3.80 6.20

PLANT ELEVATION (FEET ABOVE SEA LEVEL)-- 492.0

RECEPTOR ELEVATIONS (FEET ABOVE SEA LEVEL)

DIRECTION	RING#1	RING#2	RING#3	RING#4	RING#5
1	540.0	500.0	470.0	510.0	460.0
2	550.0	550.0	575.0	660.0	460.0
3	525.0	615.0	625.0	710.0	460.0
4	490.0	720.0	640.0	720.0	540.0
5	490.0	680.0	650.0	455.0	500.0
6	480.0	550.0	580.0	490.0	480.0
7	470.0	480.0	455.0	470.0	720.0
8	470.0	455.0	455.0	720.0	720.0
9	455.0	455.0	480.0	720.0	720.0
10	455.0	455.0	610.0	720.0	720.0
11	455.0	610.0	720.0	720.0	720.0
12	455.0	660.0	660.0	720.0	720.0
13	520.0	590.0	590.0	720.0	720.0
14	610.0	720.0	720.0	720.0	720.0
15	700.0	560.0	560.0	720.0	720.0
16	700.0	530.0	540.0	720.0	720.0
17	600.0	720.0	550.0	720.0	720.0
18	510.0	650.0	580.0	720.0	720.0
19	470.0	470.0	650.0	720.0	700.0
20	455.0	600.0	670.0	610.0	720.0
21	455.0	720.0	720.0	590.0	720.0
22	455.0	700.0	720.0	610.0	520.0
23	455.0	455.0	495.0	460.0	455.0
24	460.0	455.0	455.0	460.0	460.0
25	460.0	460.0	470.0	480.0	560.0
26	470.0	460.0	460.0	460.0	720.0
27	480.0	460.0	455.0	460.0	510.0
28	500.0	465.0	455.0	470.0	455.0
29	530.0	475.0	460.0	480.0	470.0
30	610.0	460.0	460.0	490.0	520.0
31	720.0	460.0	470.0	490.0	550.0
32	675.0	460.0	470.0	480.0	720.0
33	630.0	470.0	470.0	470.0	650.0
34	590.0	460.0	470.0	470.0	620.0
35	560.0	460.0	470.0	480.0	600.0
36	540.0	460.0	470.0	480.0	480.0

PLANT ELEVATION (METERS ABOVE SEA LEVEL)-- 150.0

RECEPTOR ELEVATIONS (METERS ABOVE SEA LEVEL)

RING#1	RING#2	RING#3	RING#4	RING#5
164.6	152.4	143.3	155.4	140.2
167.6	167.6	175.3	201.2	140.2
160.0	187.5	190.5	216.4	140.2
149.4	219.5	195.1	219.5	164.6
149.4	207.3	198.1	138.7	152.4
146.3	167.6	176.8	149.4	146.3
143.3	146.3	138.7	143.3	219.5
143.3	138.7	138.7	219.5	219.5
138.7	138.7	146.3	219.5	219.5
138.7	138.7	185.9	219.5	219.5
138.7	185.9	219.5	219.5	219.5
138.7	201.2	201.2	219.5	219.5
158.5	179.8	179.8	219.5	219.5
185.9	219.5	219.5	219.5	219.5
213.4	170.7	170.7	219.5	219.5
213.4	161.5	164.6	219.5	219.5
182.9	219.5	167.6	219.5	219.5
155.4	198.1	176.8	219.5	219.5
143.3	143.3	198.1	219.5	213.4
138.7	182.9	204.2	185.9	219.5
138.7	219.5	219.5	179.8	219.5
138.7	213.4	219.5	185.9	158.5
138.7	138.7	150.9	140.2	138.7
140.2	138.7	138.7	140.2	140.2
140.2	140.2	143.3	146.3	170.7
143.3	140.2	140.2	140.2	219.5
146.3	140.2	138.7	140.2	155.4
152.4	141.7	138.7	143.3	138.7
161.5	144.8	140.2	146.3	143.3
185.9	140.2	140.2	149.4	158.5
219.5	140.2	143.3	149.4	167.6
205.7	140.2	143.3	146.3	219.5
192.0	143.3	143.3	143.3	198.1
179.8	140.2	143.3	143.3	189.0
170.7	140.2	143.3	146.3	182.9
164.6	140.2	143.3	146.3	146.3

STACK 0 1-- STACK 1
STACK 0 2-- STACK 2
STACK 0 3-- STACK 3
STACK 0 4-- STACK 4

RECEPTOR ELEVATION LESS THAN PLANT ELEVATION - - - RECEPTOR ELEVATION SET TO PLANT ELEVATION - 80 TIMES

STACK	MONTH	EMISSION RATE (GMS/SEC)	HEIGHT (METERS)	DIAMETER (METERS)	EXIT VELOCITY (M/SEC)	TEMP* (DEG.K)	VOLUMETRIC FLOW (M**3/SEC)
1	JAN	36.2200	83.20	3.05	19.42	428.00	141.89
	FEB	36.2200	83.20	3.05	19.42	428.00	141.89
	MAR	36.2200	83.20	3.05	19.42	428.00	141.89
	APR	36.2200	83.20	3.05	19.42	428.00	141.89
	MAY	36.2200	83.20	3.05	19.42	428.00	141.89
	JUN	36.2200	83.20	3.05	19.42	428.00	141.89
	JUL	36.2200	83.20	3.05	19.42	428.00	141.89
	AUG	36.2200	83.20	3.05	19.42	428.00	141.89
	SEP	36.2200	83.20	3.05	19.42	428.00	141.89
	OCT	36.2200	83.20	3.05	19.42	428.00	141.89
	NOV	36.2200	83.20	3.05	19.42	428.00	141.89
	DEC	36.2200	83.20	3.05	19.42	428.00	141.89
2	JAN	1395.2000	70.70	3.96	28.19	462.00	347.20
	FEB	1395.2000	70.70	3.96	28.19	462.00	347.20
	MAR	1395.2000	70.70	3.96	28.19	462.00	347.20
	APR	1395.2000	70.70	3.96	28.19	462.00	347.20
	MAY	1395.2000	70.70	3.96	28.19	462.00	347.20
	JUN	1395.2000	70.70	3.96	28.19	462.00	347.20
	JUL	1395.2000	70.70	3.96	28.19	462.00	347.20
	AUG	1395.2000	70.70	3.96	28.19	462.00	347.20
	SEP	1395.2000	70.70	3.96	28.19	462.00	347.20
	OCT	1395.2000	70.70	3.96	28.19	462.00	347.20
	NOV	1395.2000	70.70	3.96	28.19	462.00	347.20
	DEC	1395.2000	70.70	3.96	28.19	462.00	347.20
3	JAN	1086.1000	114.30	3.35	28.77	415.00	253.58
	FEB	1086.1000	114.30	3.35	28.77	415.00	253.58
	MAR	1086.1000	114.30	3.35	28.77	415.00	253.58
	APR	1086.1000	114.30	3.35	28.77	415.00	253.58
	MAY	1086.1000	114.30	3.35	28.77	415.00	253.58
	JUN	1086.1000	114.30	3.35	28.77	415.00	253.58
	JUL	1086.1000	114.30	3.35	28.77	415.00	253.58
	AUG	1086.1000	114.30	3.35	28.77	415.00	253.58
	SEP	1086.1000	114.30	3.35	28.77	415.00	253.58
	OCT	1086.1000	114.30	3.35	28.77	415.00	253.58
	NOV	1086.1000	114.30	3.35	28.77	415.00	253.58
	DEC	1086.1000	114.30	3.35	28.77	415.00	253.58

STACK	MONTH	EMISSION RATE (GMS/SEC)	HEIGHT (METERS)	DIAMETER (METERS)	EXIT VELOCITY (M/SEC)	TEMP (DEG.K)	VOLUMETRIC FLOW (M**3/SEC)
4	JAN	3434.8000	243.80	5.91	33.83	405.00	928.04
	FEB	3434.8000	243.80	5.91	33.83	405.00	928.04
	MAR	3434.8000	243.80	5.91	33.83	405.00	928.04
	APR	3434.8000	243.80	5.91	33.83	405.00	928.04
	MAY	3434.8000	243.80	5.91	33.83	405.00	928.04
	JUN	3434.8000	243.80	5.91	33.83	405.00	928.04
	JUL	3434.8000	243.80	5.91	33.83	405.00	928.04
	AUG	3434.8000	243.80	5.91	33.83	405.00	928.04
	SEP	3434.8000	243.80	5.91	33.83	405.00	928.04
	OCT	3434.8000	243.80	5.91	33.83	405.00	928.04
	NOV	3434.8000	243.80	5.91	33.83	405.00	928.04
	DEC	3434.8000	243.80	5.91	33.83	405.00	928.04

JYR=64 IMO= 5 JDAY=125.

ISTAB=	6	6	6	6	6	5	4	3	3	2	2	1	2	2	2	2	3	3	4	5	6	7	7	7
AWS=	2.1	2.6	2.1	2.1	2.1	2.6	1.5	3.1	4.1	3.6	3.1	2.6	3.6	2.1	3.6	2.6	3.1	3.1	2.6	2.1	1.5	1.0	1.0	1.0
TEMP=	289.	288.	287.	286.	286.	286.	287.	290.	292.	294.	297.	299.	299.	299.	300.	299.	300.	299.	298.	294.	291.	289.	287.	288.
AFV=	270.	320.	330.	330.	10.	350.	50.	20.	20.	30.	20.	320.	340.	350.	340.	360.	340.	330.	330.	330.	350.	10.	340.	340.
AFVR=	267.	322.	335.	331.	8.	354.	53.	24.	23.	29.	23.	320.	343.	351.	345.	4.	340.	327.	333.	327.	349.	12.	344.	338.
HLH1=	2010.	2032.	2054.	2077.	2099.	101.	376.	650.	925.	1200.	1474.	1749.												
	2023.	2298.	2298.	2298.	2298.	2298.	2298.	2298.	2294.	2287.	2279.	2271.	2264.											
HLH2=	264.	264.	264.	264.	264.	354.	597.	840.	1083.	1326.	1569.	1812.												
	2055.	2298.	2298.	2298.	2298.	2298.	2298.	2046.	1562.	1078.	595.	111.												

	MAX HOURLY					MAX 24-HOUR		
DAY	RATIO	CONCENTRATION	DIRECTION	DISTANCE(KM)	HOUR	CONCENTRATION	DIRECTION	DISTANCE(KM)
125	18.651	2.444838-003	32	.90	12	1.310829-004	2	3.80

JYR=64 IMO= 5 JDAY=126.

ISTAB=	7	6	6	5	6	5	4	3	3	2	2	2	2	3	4	3	3	3	3	4	5	5	6	6
AWS=	1.0	3.1	2.6	2.6	1.0	2.1	1.5	1.0	3.1	3.1	2.6	3.6	3.1	4.6	3.6	4.1	4.1	2.1	1.5	2.1	2.6	2.1	1.0	2.6
TEMP=	286.	289.	289.	288.	289.	289.	290.	291.	293.	296.	297.	300.	300.	300.	300.	301.	300.	299.	298.	298.	295.	293.	290.	290.
AFV=	340.	320.	330.	330.	330.	330.	360.	360.	40.	40.	10.	20.	30.	30.	20.	40.	30.	360.	320.	330.	320.	360.	360.	320.
AFVR=	345.	322.	327.	333.	330.	328.	2.	5.	37.	42.	12.	19.	34.	30.	18.	43.	32.	1.	324.	333.	318.	1.	1.	318.
HLH1=	2256.	2249.	2241.	2234.	2226.	100.	357.	614.	872.	1129.	1386.	1643.												
	1901.	2158.	2158.	2158.	2158.	2158.	2158.	2140.	2106.	2071.	2036.	2002.												
HLH2=	111.	111.	111.	111.	111.	206.	450.	694.	938.	1182.	1426.	1670.												
	1914.	2158.	2158.	2158.	2158.	2158.	2158.	2140.	1886.	1642.	597.	151.												

	MAX HOURLY					MAX 24-HOUR		
DAY	RATIO	CONCENTRATION	DIRECTION	DISTANCE(KM)	HOUR	CONCENTRATION	DIRECTION	DISTANCE(KM)
126	6.692	1.262974-003	3	3.80	14	1.887219-004	3	3.80

JYR=64 IMO= 5 JDAY=127.

ISTAB=	6	7	6	7	6	5	4	3	4	4	4	3	3	4	4	4	4	3	4	5	4	5	5	5
AWS=	2.6	1.5	2.1	1.0	1.0	2.1	2.6	3.6	6.7	7.7	7.2	6.7	7.2	7.2	6.2	6.2	6.7	3.1	3.1	2.6	3.6	2.6	2.1	2.6
TEMP=	291.	290.	289.	288.	289.	288.	290.	292.	295.	297.	299.	300.	300.	300.	301.	300.	300.	299.	298.	295.	295.	293.	293.	294.
AFV=	330.	20.	30.	30.	10.	10.	10.	20.	30.	40.	40.	30.	40.	20.	50.	30.	30.	20.	10.	360.	360.	50.	30.	10.
AFVR=	334.	18.	32.	31.	13.	7.	15.	22.	26.	44.	38.	26.	37.	24.	49.	26.	28.	19.	6.	359.	1.	48.	26.	13.

```
HLH1= 1967. 1933. 1898. 1863. 1829.   73.  254.  434.  614.  795.  975. 1155.
      1336. 1516. 1516. 1516. 1516. 1516. 1516. 1503. 1476. 1450. 1423. 1397.
HLH2=  151.  151.  151.  151.  151.  217.  379.  542.  704.  867. 1029. 1191.
      1354. 1516. 1516. 1516. 1516. 1516. 1516. 1399. 1476.  917.  677.  436.
```

	MAX HOURLY					MAX 24-HOUR		
	DAY	RATIO	CONCENTRATION	DIRECTION	DISTANCE(KM)	HOUR	CONCENTRATION	DIRECTION	DISTANCE(KM)
	127	10.356	1.756912-003	4	1.50	13	1.696559-004	3	3.80

```
JYR=64 IMO= 5 JDAY=128.
ISTAB=  4    5    5    5    5    4    4    4    4    4    4    4    4    4    4    4    4    4    4    4    5    5    5    4    4
AWS=  5.1  4.6  3.6  3.6  3.1  3.6  2.6  4.6  6.7  5.1  7.2  6.2  6.2  6.2  6.7  5.1  6.7  6.7  3.6  3.1  2.6  2.1  4.1  3.6
TEMP= 294. 293. 293. 291. 291. 291. 291. 293. 293. 292. 293. 294. 294. 295. 295. 295. 295. 295. 295. 294. 293. 293. 293. 291.
AFV=   30.  40.  20.  30.  20.  30.  20.  10.  50.  40.  40.  40.  40.  30.  30.  40.  40.  30.  20.  10.  10. 360.  10.  20.
AFVR=  33.  38.  17.  29.  17.  26.  19.   6.  50.  44.  36.  36.  44.  29.  26.  36.  38.  32.  16.   9.  15.   2.  11.  22.
HLH1= 1370. 1344. 1317. 1290. 1264.   52.  173.  295.  416.  538.  659.  781.
       902. 1024. 1024. 1024. 1024. 1024. 1024. 1030. 1043. 1057. 1070. 1083.
HLH2= 1370.  436.  436.  436.  436.  466.  535.  605.  675.  745.  815.  884.
       954. 1024. 1024. 1024. 1024. 1024. 1024.  993.  927.  861. 1070. 1083.
```

	MAX HOURLY					MAX 24-HOUR		
	DAY	RATIO	CONCENTRATION	DIRECTION	DISTANCE(KM)	HOUR	CONCENTRATION	DIRECTION	DISTANCE(KM)
	128	5.665	9.203481-004	4	3.80	17	1.624527-004	4	3.80

```
JYR=64 IMO= 5 JDAY=129.
ISTAB=  4    4    5    5    5    4    4    4    4    4    4    3    4    4    4    4    4    4    4    4    4    4    4    4
AWS=  3.6  3.6  2.1  2.6  2.6  2.6  3.1  3.6  5.1  7.7  6.7  8.2  8.2  8.2  8.2  7.2  4.1  4.1  6.2  6.7  6.2  8.2  7.2 10.8
TEMP= 292. 292. 290. 291. 291. 292. 292. 293. 294. 297. 299. 300. 300. 301. 301. 299. 296. 296. 296. 296. 296. 296. 295. 295.
AFV=   10.  30.  10. 340.  20.  10.  20. 360.  20.  30.  30.  30.  40.  50.  50.  40.  60.  20.  20.  40.  30.  40.  40.  30.
AFVR=  12.  35.  13. 345.  19.  13.  16. 356.  25.  26.  31.  26.  43.  46.  52.  40.  58.  24.  18.  37.  33.  40.  39.  33.
HLH1= 1096. 1109. 1122. 1135. 1148.   67.  217.  367.  517.  667.  817.  967.
      1117. 1267. 1267. 1267. 1267. 1267. 1267. 1279. 1305. 1331. 1358. 1384.
HLH2= 1096. 1109.  729.  729.  729.  757.  821.  885.  948. 1012. 1076. 1140.
      1203. 1267. 1267. 1267. 1267. 1267. 1267. 1279. 1305. 1331. 1358. 1384.
```

	MAX HOURLY					MAX 24-HOUR		
	DAY	RATIO	CONCENTRATION	DIRECTION	DISTANCE(KM)	HOUR	CONCENTRATION	DIRECTION	DISTANCE(KM)
	129	5.123	1.269778-003	4	3.80	22	2.478738-004	4	3.80

```
JYR=64 IMO= 5 JDAY=130.
ISTAB=  4    4    4    4    4    4    4    4    4    4    4    3    3    3    4    4    4    4    4    5    5    4    5    5
AWS=  7.7  8.2 10.8  7.7 11.8  8.2  9.3  7.2  7.2  8.2  7.2  5.7  7.7  6.7  8.2  8.7  7.7  7.2  6.7  5.1  5.1  6.2  5.1  5.1
TEMP= 295. 295. 296. 296. 296. 295. 295. 292. 293. 294. 295. 295. 296. 297. 298. 298. 297. 296. 295. 294. 292. 291. 291. 290.
AFV=   40.  40.  50.  60.  70.  70.  80. 120. 100.  90. 100. 100.  70.  70.  70.  70.  70.  70.  50.  50.  50.  60.  50.  60.
AFVR=  41.  45.  46.  58.  66.  66.  80. 122. 104.  93. 105. 100.  68.  68.  72.  67.  67.  75.  46.  52.  53.  58.  53.  65.
HLH1= 1410. 1436. 1462. 1489. 1515. 1541. 1567. 1594. 1620. 1646. 1672. 1699.
      1725. 1751. 1751. 1751. 1751. 1751. 1751. 1767. 1802. 1837. 1873. 1908.
HLH2= 1410. 1436. 1462. 1489. 1515. 1541. 1567. 1594. 1620. 1646. 1672. 1699.
      1725. 1751. 1751. 1751. 1751. 1751. 1751. 1622. 1327. 1837.  737.  442.
```

MAX HOURLY	MAX 24-HOUR

DAY	RATIO	CONCENTRATION	DIRECTION	DISTANCE(KM)	HOUR	CONCENTRATION	DIRECTION	DISTANCE(KM)
130	7.126	1.308944-003	8	3.80	7	1.836867-004	7	6.20

JYR=64 IMO= 5 JDAY=131.

ISTAB=	5	5	5	5	5	4	3	3	3	3	3	3	3	3	4	4	4	4	4	5	6	7	6	6
AWS=	4.1	4.6	3.6	3.6	3.6	3.1	3.6	4.1	5.1	5.1	5.7	6.2	8.2	6.2	8.2	6.7	6.2	5.1	3.6	2.1	1.0	1.0	1.0	1.0
TEMP=	289.	290.	288.	285.	285.	285.	288.	290.	293.	294.	295.	297.	298.	298.	300.	299.	299.	298.	296.	293.	289.	287.	283.	289.
AFV=	70.	80.	70.	60.	60.	50.	50.	70.	70.	70.	70.	90.	100.	90.	90.	100.	100.	100.	110.	110.	110.	110.	110.	110.
AFVR=	67.	77.	66.	65.	62.	48.	47.	69.	74.	66.	75.	93.	103.	87.	95.	102.	96.	102.	115.	114.	106.	114.	112.	108.
MLH1=	1943.	1978.	2014.	2049.	2084.	136.	419.	702.	986.	1269.	1553.	1836.												
	2120.	2403.	2403.	2403.	2403.	2403.	2403.	2404.	2406.	2408.	2411.	2413.												
MLH2=	442.	442.	442.	442.	442.	553.	784.	1015.	1247.	1478.	1709.	1940.												
	2172.	2403.	2403.	2403.	2403.	2403.	2403.	2183.	1663.	1143.	623.	103.												

MAX HOURLY MAX 24-HOUR

DAY	RATIO	CONCENTRATION	DIRECTION	DISTANCE(KM)	HOUR	CONCENTRATION	DIRECTION	DISTANCE(KM)
131	6.679	1.102121-003	10	2.00	13	1.650050-004	10	3.80

JYR=64 IMO= 5 JDAY=132.

ISTAB=	6	5	6	7	6	5	4	3	3	4	3	3	3	3	3	2	3	3	4	4	4	4	4	4
AWS=	1.0	2.1	1.0	1.0	2.1	3.1	3.1	4.1	3.6	4.1	3.6	2.1	3.6	3.1	1.5	1.5	2.6	3.1	3.1	3.1	4.1	4.1	4.1	5.1
TEMP=	289.	286.	286.	285.	285.	285.	288.	290.	292.	291.	291.	291.	291.	291.	290.	291.	294.	294.	293.	293.	291.	290.	290.	290.
AFV=	110.	20.	20.	20.	270.	290.	290.	300.	310.	320.	20.	320.	270.	320.	300.	300.	290.	270.	270.	260.	270.	280.	280.	300.
AFVR=	106.	19.	22.	22.	269.	286.	289.	298.	310.	325.	22.	322.	275.	316.	304.	305.	293.	267.	275.	262.	269.	282.	284.	297.
MLH1=	2415.	2417.	2419.	2422.	2424.	143.	430.	718.	1006.	1293.	1581.	1869.												
	2156.	2444.	2444.	2444.	2444.	2444.	2444.	2424.	2374.	2324.	2275.	2225.												
MLH2=	103.	103.	103.	103.	103.	240.	515.	791.	1066.	1342.	1617.	1893.												
	2168.	2444.	2444.	2444.	2444.	2444.	2444.	2424.	2374.	2324.	2275.	2225.												

MAX HOURLY MAX 24-HOUR

DAY	RATIO	CONCENTRATION	DIRECTION	DISTANCE(KM)	HOUR	CONCENTRATION	DIRECTION	DISTANCE(KM)
132	11.331	9.746704-004	2	3.80	11	8.601696-005	30	6.20

JYR=64 IMO= 5 JDAY=133.

ISTAB=	4	5	5	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	5	6	5	5	5
AWS=	4.6	2.6	2.1	4.6	3.6	3.1	4.1	4.1	4.6	6.2	5.7	6.2	5.7	7.7	7.7	6.2	6.2	5.1	4.6	3.1	1.0	2.1	2.1	2.6
TEMP=	290.	289.	290.	290.	290.	290.	291.	293.	293.	293.	294.	296.	297.	298.	298.	298.	296.	296.	295.	292.	291.	290.	290.	290.
AFV=	300.	300.	350.	20.	40.	30.	40.	40.	40.	40.	30.	50.	60.	60.	70.	70.	70.	60.	60.	50.	50.	360.	10.	30.
AFVR=	298.	303.	350.	16.	38.	27.	44.	39.	44.	38.	28.	46.	64.	59.	75.	72.	72.	62.	58.	51.	49.	2.	7.	27.
MLH1=	2176.	2126.	2076.	2027.	1977.	1927.	1877.	1828.	1778.	1728.	1678.	1629.												
	1579.	1529.	1529.	1529.	1529.	1529.	1529.	1503.	1436.	1369.	1302.	1236.												
MLH2=	2176.	833.	833.	2027.	1977.	1927.	1877.	1828.	1778.	1728.	1678.	1629.												
	1579.	1529.	1529.	1529.	1529.	1529.	1529.	1467.	1308.	1149.	991.	832.												

MAX HOURLY MAX 24-HOUR

DAY	RATIO	CONCENTRATION	DIRECTION	DISTANCE(KM)	HOUR	CONCENTRATION	DIRECTION	DISTANCE(KM)
133	13.010	1.118979-003	6	2.00	14	8.601213-005	7	6.20

JYR=64 IMO= 5 JDAY=134.

ISTAB=	4	4	4	4	4	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
AWS=	4.1	3.6	4.6	3.6	4.1	1.5	1.5	3.6	4.6	5.1	6.7	7.2	6.7	6.2	7.7	7.2	6.7	5.1	5.1	3.6	3.6	3.6	3.1	2.6
TEMP=	290.	290.	290.	288.	287.	287.	287.	288.	289.	288.	289.	290.	289.	290.	289.	289.	290.	288.	287.	286.	286.	286.	286.	285.
AFV=	30.	80.	80.	50.	140.	140.	90.	70.	80.	100.	100.	80.	70.	90.	80.	70.	70.	70.	70.	60.	60.	50.	70.	100.
AFVR=	28.	85.	84.	48.	141.	140.	92.	74.	84.	103.	98.	81.	72.	90.	81.	71.	74.	73.	68.	65.	60.	55.	73.	104.
HLH1=	1170.	1103.	1036.	969.	902.	835.	768.	701.	634.	568.	501.	434.												
	367.	300.	300.	300.	300.	300.	300.	327.	400.	473.	546.	618.												
HLH2=	1170.	1103.	1036.	969.	902.	835.	768.	701.	634.	568.	501.	434.												
	367.	300.	300.	300.	300.	300.	300.	327.	400.	473.	546.	618.												

	MAX HOURLY				MAX 24-HOUR		
DAY	RATIO	CONCENTRATION	DIRECTION	DISTANCE(KM)	HOUR	CONCENTRATION	DIRECTION	DISTANCE(KM)
134	7.374	1.127405-003	8	3.80	15	1.528935-004	7	6.20

JYR=64 IMO= 5 JDAY=140.

ISTAB=	6	6	6	6	6	5	4	3	4	4	3	3	3	3	4	4	4	4	4	5	5	5	5	5
AWS=	2.1	2.6	2.6	2.1	2.6	3.1	3.6	4.6	6.2	6.2	6.7	6.2	7.2	7.2	7.7	8.2	7.7	6.2	5.7	4.1	3.6	3.6	4.1	3.6
TEMP=	294.	290.	290.	290.	289.	290.	292.	296.	299.	301.	304.	305.	305.	306.	306.	306.	306.	305.	303.	300.	298.	297.	298.	297.
AFV=	360.	30.	40.	30.	20.	30.	30.	70.	70.	70.	70.	100.	70.	70.	90.	70.	60.	70.	80.	60.	60.	60.	60.	80.
AFVR=	4.	35.	39.	27.	24.	32.	27.	70.	69.	71.	74.	101.	69.	67.	90.	69.	60.	75.	84.	56.	59.	59.	58.	76.
HLH1=	2433.	2411.	2388.	2366.	2344.	153.	402.	651.	901.	1150.	1399.	1648.												
	1897.	2146.	2146.	2146.	2146.	2146.	2146.	2122.	2039.	1955.	1871.	1787.												
HLH2=	227.	227.	227.	227.	227.	364.	587.	810.	1032.	1255.	1478.	1701.												
	1923.	2146.	2146.	2146.	2146.	2146.	2146.	2035.	1640.	1245.	850.	455.												

	MAX HOURLY				MAX 24-HOUR		
DAY	RATIO	CONCENTRATION	DIRECTION	DISTANCE(KM)	HOUR	CONCENTRATION	DIRECTION	DISTANCE(KM)
140	5.697	1.311604-003	9	3.80	15	2.302307-004	7	6.20

JYR=64 IMO= 5 JDAY=141.

ISTAB=	5	6	5	4	4	4	3	3	4	3	2	3	3	2	3	4	4	4	4	5	6	5	4	5
AWS=	4.1	1.5	2.1	3.6	4.1	4.1	3.1	4.1	6.2	4.6	2.6	5.1	6.2	3.1	6.2	6.2	5.7	6.2	6.2	3.6	3.1	4.1	5.7	4.6
TEMP=	296.	295.	294.	294.	294.	293.	293.	294.	294.	296.	296.	298.	299.	299.	299.	299.	298.	296.	295.	292.	290.	289.	289.	287.
AFV=	100.	100.	100.	120.	180.	190.	210.	220.	200.	200.	220.	190.	200.	220.	190.	180.	200.	210.	220.	230.	240.	230.	230.	230.
AFVR=	100.	102.	96.	116.	178.	195.	210.	224.	203.	203.	218.	194.	202.	217.	195.	183.	203.	206.	219.	227.	241.	228.	228.	233.
HLH1=	1704.	1620.	1537.	1453.	1369.	1285.	1201.	1117.	1033.	949.	866.	782.												
	698.	614.	614.	614.	614.	614.	614.	628.	680.	731.	783.	835.												
HLH2=	455.	455.	455.	1453.	1369.	1285.	1201.	1117.	1033.	949.	866.	782.												
	698.	614.	614.	614.	614.	614.	614.	584.	474.	363.	783.	141.												

	MAX HOURLY				MAX 24-HOUR		
DAY	RATIO	CONCENTRATION	DIRECTION	DISTANCE(KM)	HOUR	CONCENTRATION	DIRECTION	DISTANCE(KM)
141	7.033	1.392889-003	20	2.00	13	1.980539-004	20	2.00

JYR=64 IMO= 5 JDAY=142.

ISTAB=	5	5	5	5	5	4	3	3	2	2	1	1	1	1	2	3	2	3	3	4	5	6	7	7
AWS=	3.6	4.1	3.6	3.6	4.1	4.1	3.6	3.6	1.5	1.0	1.0	2.6	1.5	1.5	2.6	4.1	1.5	2.6	1.0	1.0	1.0	1.0	1.5	1.0
TEMP=	285.	284.	284.	283.	281.	282.	284.	286.	289.	291.	293.	295.	298.	299.	299.	300.	300.	299.	298.	291.	289.	287.	286.	285.
AFV=	230.	250.	250.	250.	260.	250.	260.	240.	340.	270.	250.	140.	50.	150.	340.	280.	130.	80.	50.	50.	50.	50.	360.	360.
AFVR=	233.	252.	252.	250.	258.	247.	261.	244.	336.	268.	246.	145.	48.	152.	338.	276.	134.	76.	46.	55.	51.	54.	360.	4.
HLH1=	886.	938.	989.	1041.	1093.	116.	296.	476.	657.	837.	1018.	1198.												

	1379.	1559.	1559.	1559.	1559.	1559.	1559.	1566.	1592.	1618.	1644.	1670.
HLH2=	141.	141.	141.	141.	141.	246.	410.	574.	738.	903.	1067.	1231.
	1395.	1559.	1559.	1559.	1559.	1559.	1559.	1566.	1118.	766.	413.	61.

	MAX HOURLY					MAX 24-HOUR		
	DAY	RATIO	CONCENTRATION	DIRECTION	DISTANCE(KM)	HOUR	CONCENTRATION	DIRECTION	DISTANCE(KM)
	142	15.886	2.651364-003	5	1.50	13	1.669015-004	15	1.50

JYR=64 IMO= 5 JDAY=143.

ISTAB=	7	7	7	7	6	5	4	3	3	2	2	2	1	2	2	3	3	3	4	5	6	6	7	
AWS=	1.0	1.0	1.0	1.0	1.5	1.5	1.5	2.1	3.1	4.1	4.1	3.6	3.6	2.6	2.6	1.5	2.6	3.1	1.5	2.1	2.1	1.5	2.1	1.5
TEMP=	284.	285.	284.	284.	283.	283.	289.	293.	297.	300.	301.	302.	303.	304.	304.	304.	304.	303.	301.	298.	295.	292.	293.	293.
AFV=	360.	360.	360.	360.	30.	30.	20.	20.	50.	70.	60.	60.	20.	240.	360.	330.	10.	360.	360.	350.	10.	10.	20.	20.
AFVR=	5.	1.	2.	4.	31.	29.	25.	20.	48.	74.	65.	62.	23.	245.	356.	330.	12.	359.	2.	354.	14.	9.	21.	24.
HLH1=	1695.	1721.	1747.	1774.	1800.	153.	388.	624.	859.	1094.	1329.	1564.												
	1799.	2034.	2034.	2034.	2034.	2034.	2034.	2020.	1960.	1900.	1840.	1780.												
HLH2=	61.	61.	61.	61.	61.	210.	438.	666.	894.	1122.	1350.	1578.												
	1806.	2034.	2034.	2034.	2034.	2034.	2034.	2020.	1505.	1078.	650.	223.												

	MAX HOURLY					MAX 24-HOUR		
	DAY	RATIO	CONCENTRATION	DIRECTION	DISTANCE(KM)	HOUR	CONCENTRATION	DIRECTION	DISTANCE(KM)
	143	19.717	1.899900-003	24	.90	14	9.635807-005	6	2.00

JYR=64 IMO= 5 JDAY=144.

ISTAB=	7	6	6	5	5	4	3	3	3	4	3	4	4	4	3	3	4	3	4	5	6	6	6	5
AWS=	1.5	2.1	2.1	3.1	2.1	2.1	2.6	4.6	4.6	6.2	5.7	6.7	4.6	2.6	3.1	5.1	4.1	2.6	2.6	3.1	3.1	2.1	2.6	4.1
TEMP=	292.	292.	291.	292.	291.	292.	294.	295.	297.	300.	302.	294.	294.	294.	298.	300.	299.	299.	299.	296.	296.	295.	294.	294.
AFV=	20.	30.	30.	10.	20.	20.	20.	30.	50.	40.	30.	70.	40.	60.	50.	50.	50.	10.	350.	350.	10.	360.	10.	20.
AFVR=	16.	32.	31.	14.	21.	17.	25.	31.	48.	41.	35.	74.	38.	64.	54.	52.	49.	9.	354.	348.	10.	2.	13.	16.
HLH1=	1720.	1660.	1600.	1540.	1480.	72.	181.	289.	398.	506.	615.	723.												
	832.	940.	940.	940.	940.	940.	940.	951.	1002.	1052.	1103.	1154.												
HLH2=	223.	223.	223.	223.	223.	278.	361.	443.	526.	609.	692.	774.												
	857.	940.	940.	940.	940.	940.	940.	928.	873.	819.	764.	710.												

	MAX HOURLY					MAX 24-HOUR		
	DAY	RATIO	CONCENTRATION	DIRECTION	DISTANCE(KM)	HOUR	CONCENTRATION	DIRECTION	DISTANCE(KM)
	144	9.355	1.212557-003	3	3.80	8	1.296188-004	4	3.80

JYR=64 IMO= 5 JDAY=145.

ISTAB=	5	5	5	6	5	4	3	4	4	4	4	4	4	3	4	4	3	4	4	5	4	5	5	5
AWS=	4.1	3.6	4.1	2.6	3.6	4.6	4.6	7.2	7.7	9.3	10.3	8.7	8.2	10.3	11.3	9.8	4.6	7.7	5.1	3.6	4.1	3.6	4.1	5.1
TEMP=	294.	293.	293.	292.	293.	293.	294.	296.	298.	300.	301.	301.	303.	303.	301.	302.	296.	299.	299.	298.	296.	295.	294.	294.
AFV=	20.	30.	40.	40.	20.	50.	40.	50.	50.	50.	60.	50.	50.	50.	40.	50.	110.	80.	90.	80.	100.	100.	110.	170.
AFVR=	23.	33.	43.	44.	17.	50.	40.	54.	48.	48.	59.	47.	46.	47.	41.	46.	109.	83.	90.	84.	98.	103.	112.	175.
HLH1=	1204.	1254.	1305.	1356.	1406.	145.	360.	574.	789.	1003.	1218.	1433.												
	1647.	1862.	1862.	1862.	1862.	1862.	1862.	1862.	1863.	1863.	1864.	1864.												
HLH2=	710.	710.	710.	710.	710.	800.	932.	1065.	1198.	1331.	1464.	1596.												
	1729.	1862.	1862.	1862.	1862.	1862.	1862.	1783.	1863.	1031.	654.	278.												

	MAX HOURLY	MAX 24-HOUR

DAY	RATIO	CONCENTRATION	DIRECTION	DISTANCE(KM)	HOUR	CONCENTRATION	DIRECTION	DISTANCE(KM)
145	8.829	1.779976-003	4	1.50	15	2.016142-004	4	1.50

JYR=64 IMO= 5 JDAY=146.

ISTAB=	4	5	6	6	7	6	5	4	3	2	2	2	1	2	2	3	3	3	4	5	6	5	4	5
AWS=	5.7	4.1	2.6	2.1	1.0	1.0	1.0	2.1	4.1	2.1	4.1	3.6	2.6	3.6	3.6	4.1	3.1	2.6	3.1	2.1	3.1	3.6	3.6	3.1
TEMP=	293.	290.	289.	289.	288.	287.	290.	292.	294.	295.	296.	298.	298.	298.	300.	298.	299.	298.	296.	291.	290.	289.	289.	289.
AFV=	180.	190.	210.	210.	210.	210.	210.	200.	230.	250.	250.	260.	220.	260.	260.	240.	280.	300.	290.	300.	290.	310.	310.	320.
AFVR=	179.	189.	208.	206.	209.	208.	210.	197.	234.	251.	250.	263.	222.	262.	257.	237.	284.	297.	292.	300.	288.	309.	307.	318.
HLH1=	1865.	1865.	1866.	1867.	1867.	148.	363.	579.	794.	1010.	1225.	1441.												
	1656.	1872.	1872.	1872.	1872.	1872.	1872.	1872.	1874.	1875.	1877.	1878.												
HLH2=	1865.	278.	278.	278.	278.	404.	587.	771.	954.	1138.	1321.	1505.												
	1688.	1872.	1872.	1872.	1872.	1872.	1872.	1802.	1441.	1080.	1877.	358.												

	MAX HOURLY				MAX 24-HOUR			
DAY	RATIO	CONCENTRATION	DIRECTION	DISTANCE(KM)	HOUR	CONCENTRATION	DIRECTION	DISTANCE(KM)
146	12.736	1.947981-003	22	.90	13	1.529459-004	26	2.00

JYR=64 IMO= 5 JDAY=147.

ISTAB=	6	6	6	5	6	5	4	3	4	4	3	3	4	4	4	4	4	4	4	4	4	5	6	5
AWS=	1.5	2.6	2.1	2.1	1.5	2.1	2.6	3.6	6.2	6.7	4.6	6.2	7.2	5.1	7.7	5.7	5.1	15.4	5.1	4.6	3.6	2.6	2.6	2.6
TEMP=	289.	288.	288.	286.	286.	288.	289.	293.	294.	297.	299.	302.	302.	301.	302.	300.	300.	300.	294.	293.	293.	292.	291.	291.
AFV=	320.	330.	340.	350.	360.	360.	10.	10.	20.	30.	70.	60.	70.	30.	50.	50.	40.	50.	60.	40.	40.	40.	30.	30.
AFVR=	318.	333.	344.	351.	358.	3.	12.	15.	22.	27.	73.	62.	68.	30.	54.	46.	38.	47.	65.	41.	45.	36.	26.	30.
HLH1=	1880.	1882.	1883.	1885.	1886.	152.	370.	589.	807.	1026.	1244.	1463.												
	1681.	1900.	1900.	1900.	1900.	1900.	1900.	1888.	1822.	1756.	1690.	1624.												
HLH2=	358.	358.	358.	358.	358.	481.	659.	836.	1013.	1191.	1368.	1545.												
	1723.	1900.	1900.	1900.	1900.	1900.	1900.	1888.	1822.	1510.	1331.	1152.												

	MAX HOURLY				MAX 24-HOUR			
DAY	RATIO	CONCENTRATION	DIRECTION	DISTANCE(KM)	HOUR	CONCENTRATION	DIRECTION	DISTANCE(KM)
147	14.233	1.146809-003	5	1.50	18	8.057457-005	7	6.20

JYR=64 IMO= 5 JDAY=148.

ISTAB=	6	5	4	4	4	4	4	4	4	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
AWS=	1.0	4.6	4.1	3.6	2.6	2.6	2.6	4.1	4.6	4.6	4.1	3.6	5.7	6.2	6.7	7.2	5.1	5.7	4.1	5.1	4.1	4.1	4.6	3.6
TEMP=	291.	291.	291.	292.	292.	292.	292.	293.	295.	295.	295.	295.	297.	298.	298.	299.	298.	297.	295.	294.	292.	291.	291.	289.
AFV=	30.	40.	50.	40.	50.	100.	110.	120.	130.	120.	150.	130.	140.	110.	130.	120.	150.	150.	160.	180.	200.	220.	210.	220.
AFVR=	30.	44.	48.	38.	54.	98.	114.	116.	134.	116.	152.	134.	141.	113.	128.	118.	148.	151.	182.	184.	199.	223.	212.	216.
HLH1=	1559.	1493.	1427.	1361.	1294.	1228.	1162.	1096.	1030.	964.	898.	832.												
	766.	700.	700.	700.	700.	700.	700.	702.	714.	726.	738.	750.												
HLH2=	1152.	1152.	1427.	1361.	1294.	1228.	1162.	1096.	1030.	964.	898.	832.												
	766.	700.	700.	700.	700.	700.	700.	702.	714.	726.	738.	750.												

	MAX HOURLY				MAX 24-HOUR			
DAY	RATIO	CONCENTRATION	DIRECTION	DISTANCE(KM)	HOUR	CONCENTRATION	DIRECTION	DISTANCE(KM)
148	13.672	1.658060-003	14	2.00	13	1.212773-004	15	3.80

JYR=64 IMO= 5 JDAY=149.

ISTAB=	5	4	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	6	6	6

AWS=	3.1	3.6	3.1	3.6	4.1	3.1	3.1	3.1	4.6	5.7	5.7	6.2	4.6	4.1	3.6	2.6	2.6	4.6	4.1	5.1	3.6	3.1	3.1	2.1
TEMP=	289.	288.	288.	288.	286.	285.	285.	285.	285.	285.	284.	285.	285.	285.	285.	284.	285.	286.	286.	285.	284.	284.	283.	282.
AFV=	240.	220.	220.	230.	240.	220.	210.	220.	250.	240.	240.	240.	250.	200.	190.	170.	200.	210.	210.	200.	190.	200.	190.	210.
AFVR=	236.	220.	220.	226.	244.	220.	215.	220.	254.	237.	244.	236.	249.	204.	194.	172.	203.	211.	208.	196.	186.	199.	195.	207.
HLH1=	762.	774.	786.	797.	809.	821.	833.	845.	857.	869.	881.	893.												
	905.	917.	917.	917.	917.	917.	917.	924.	971.	1019.	1066.	1113.												
HLH2=	1034.	774.	1034.	797.	809.	821.	833.	845.	857.	869.	881.	893.												
	905.	917.	917.	917.	917.	917.	917.	924.	859.	809.	759.	709.												

MAX HOURLY						MAX 24-HOUR		
DAY	RATIO	CONCENTRATION	DIRECTION	DISTANCE(KM)	HOUR	CONCENTRATION	DIRECTION	DISTANCE(KM)
149	11.406	6.281833-004	21	6.20	18	5.507415-005	21	6.20

PLANT NAME: EXAMPLE RUN POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

MAXIMUM MEAN CONC= 6.7811-005 DIRECTION= 4 DISTANCE= 3.8 KM

ANNUAL MEAN CONCENTRATION AT EACH RECEPTOR

DIR RANGE	.9 KM	1.5 KM	2.0 KM	3.8 KM	6.2 KM
1	4.10140-007	3.80076-006	6.66917-006	1.06343-005	9.51526-006
2	1.36847-006	1.06365-005	1.84246-005	3.16235-005	1.75303-005
3	1.78905-006	2.10362-005	3.12905-005	5.62349-005	2.27832-005
4	2.15707-006	4.81971-005	3.42307-005	6.78112-005	2.90200-005
5	2.57514-006	3.13962-005	3.26781-005	2.03256-005	2.11436-005
6	2.00089-006	1.41608-005	2.05692-005	1.63560-005	1.42326-005
7	1.21280-006	1.09444-005	1.83758-005	2.69124-005	4.80927-005
8	2.89630-007	3.30814-006	6.10310-006	2.86343-005	2.16586-005
9	1.04420-007	1.86677-006	3.40683-006	1.69739-005	1.34997-005
10	2.21029-007	3.17127-006	1.02212-005	2.23272-005	1.91194-005
11	1.98212-007	5.37599-006	1.28351-005	1.15985-005	9.01433-006
12	5.65137-007	3.59797-006	5.26416-006	8.90069-006	7.08412-006
13	2.34945-006	3.04648-006	3.52006-006	7.54127-006	5.97533-006
14	5.92171-006	1.05523-005	1.05357-005	9.61679-006	7.90678-006
15	7.79355-006	9.05451-006	8.37309-006	1.01872-005	7.92175-006
16	4.66181-006	5.54222-006	4.65084-006	3.14055-006	1.92608-006
17	1.34221-006	1.81528-006	1.29334-006	9.55022-007	8.59659-007
18	2.21744-007	5.89425-007	4.62922-007	5.68163-006	6.25072-006
19	1.84926-007	1.13407-006	4.45583-006	6.82058-006	5.66355-006
20	8.80194-007	5.24037-006	1.03307-005	9.12187-006	1.17079-005
21	2.67115-006	8.30454-006	1.03212-005	8.57604-006	1.23338-005
22	4.70511-006	8.80818-006	1.12634-005	9.87912-006	6.58205-006
23	5.57858-006	5.61631-006	5.56291-006	5.77438-006	4.96021-006
24	5.95548-006	7.28666-006	7.07400-006	7.42698-006	6.15262-006
25	5.21391-006	9.25179-006	9.81544-006	8.87107-006	7.50435-006
26	2.86630-006	7.83068-006	9.77126-006	9.82835-006	9.94193-006
27	8.71950-007	3.42586-006	5.05228-006	7.11309-006	5.79621-006
28	1.52030-007	7.59862-007	1.74322-006	4.07951-006	3.96748-006
29	2.12893-007	2.59566-007	7.90655-007	3.05800-006	3.53526-006
30	1.23257-006	9.02208-007	1.61770-006	4.96763-006	6.28626-006
31	3.88182-006	2.23771-006	2.40897-006	4.62075-006	5.13643-006
32	5.17015-006	3.27291-006	3.10171-006	5.13247-006	1.08137-005
33	3.82165-006	3.51458-006	4.45958-006	6.94572-006	8.24207-006
34	1.93637-006	4.56248-006	7.22194-006	9.25909-006	6.69287-006
35	7.49706-007	4.03768-006	6.82707-006	7.94668-006	6.40399-006
36	2.46870-007	2.74210-006	5.35096-006	8.58623-006	8.02854-006

PLANT NAME: EXAMPLE RUN POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY MAXIMUM 24-HOUR CONC= 2.4787-004 DIRECTION= 4 DISTANCE= 3.8 KM DAY=129

HIGHEST 24-HOUR CONCENTRATION AT EACH RECEPTOR

RANGE DIR	.9 KM	1.5 KM	2.0 KM	3.8 KM	6.2 KM
1	3.6260-006 (126)	3.3311-005 (126)	5.3850-005 (126)	6.0438-005 (126)	4.4310-005 (143)
2	6.7061-006 (126)	6.0660-005 (126)	1.0049-004 (125)	1.3431-004 (127)	8.0837-005 (127)
3	1.4093-005 (142)	1.0417-004 (126)	1.6601-004 (126)	1.8872-004 (126)	9.9288-005 (126)
4	3.2488-005 (142)	2.0161-004 (145)	1.5537-004 (126)	2.4787-004 (129)	1.0349-004 (126)
5	3.9866-005 (142)	1.6393-004 (145)	1.5604-004 (145)	8.6229-005 (144)	7.9230-005 (145)
6	2.4730-005 (142)	7.4006-005 (143)	9.6358-005 (143)	6.5065-005 (143)	4.3790-005 (130)
7	7.7555-006 (142)	6.4249-005 (140)	1.0891-004 (140)	1.4843-004 (140)	2.3023-004 (140)
8	1.8948-006 (143)	2.3445-005 (131)	4.7417-005 (131)	1.3649-004 (134)	1.2426-004 (134)
9	1.5382-006 (131)	3.0126-005 (131)	5.3967-005 (131)	1.1562-004 (131)	7.5987-005 (134)
10	2.9624-006 (131)	3.0124-005 (131)	8.2929-005 (131)	1.6501-004 (131)	1.2261-004 (131)
11	1.4626-006 (131)	4.3792-005 (148)	9.9296-005 (148)	7.6321-005 (148)	6.3585-005 (145)
12	1.0788-005 (142)	5.2275-005 (148)	7.7174-005 (148)	1.1364-004 (148)	8.4053-005 (148)
13	4.6801-005 (142)	4.9869-005 (142)	4.4566-005 (142)	9.5313-005 (148)	7.7423-005 (148)
14	1.1467-004 (142)	1.3122-004 (142)	1.1151-004 (142)	8.6704-005 (148)	5.7925-005 (148)
15	1.4868-004 (142)	1.6690-004 (142)	1.3577-004 (142)	1.2128-004 (148)	1.0295-004 (148)
16	9.2276-005 (142)	1.0853-004 (142)	8.6027-005 (142)	4.5509-005 (142)	2.7719-005 (142)
17	2.6829-005 (142)	3.5419-005 (142)	2.5714-005 (142)	1.1133-005 (142)	5.6530-006 (142)
18	4.1646-006 (142)	5.4768-006 (142)	4.2086-006 (141)	4.4431-005 (141)	4.6806-005 (141)
19	2.5031-006 (146)	2.1097-005 (141)	8.6526-005 (141)	8.7129-005 (141)	5.4394-005 (141)
20	1.5789-005 (146)	9.5080-005 (141)	1.9805-004 (141)	1.6752-004 (141)	1.6221-004 (141)
21	5.0350-005 (146)	1.2680-004 (141)	1.7302-004 (141)	1.4435-004 (141)	1.3224-004 (141)
22	8.1189-005 (146)	1.0333-004 (141)	1.6899-004 (141)	1.5684-004 (141)	9.2594-005 (141)
23	6.6669-005 (146)	5.5635-005 (146)	5.5333-005 (146)	5.9104-005 (146)	4.4827-005 (146)
24	7.9162-005 (143)	5.3170-005 (143)	6.8946-005 (146)	8.3444-005 (146)	6.1080-005 (146)
25	7.9162-005 (143)	8.7115-005 (146)	1.2357-004 (146)	1.1796-004 (146)	7.5336-005 (146)
26	4.0019-005 (143)	1.0793-004 (146)	1.5295-004 (146)	1.3503-004 (146)	8.6289-005 (142)
27	1.0227-005 (143)	5.2813-005 (146)	7.1652-005 (146)	5.5870-005 (146)	5.1535-005 (132)
28	1.3336-006 (143)	8.8428-006 (146)	1.4762-005 (146)	3.0922-005 (142)	2.8196-005 (132)
29	4.0249-006 (125)	1.9089-006 (132)	8.7045-006 (132)	3.4804-005 (132)	4.1251-005 (132)
30	2.4252-005 (125)	1.2814-005 (125)	2.1600-005 (132)	7.4050-005 (132)	8.6017-005 (132)
31	7.6002-005 (125)	4.0768-005 (125)	2.7612-005 (125)	7.4698-005 (132)	8.2557-005 (132)
32	1.0281-004 (125)	6.1576-005 (125)	4.5914-005 (125)	4.3105-005 (132)	7.5789-005 (132)
33	7.5240-005 (125)	5.8027-005 (125)	5.5526-005 (125)	5.8181-005 (125)	6.1990-005 (125)
34	3.7312-005 (125)	7.1973-005 (125)	9.9734-005 (125)	1.0996-004 (125)	8.0395-005 (125)
35	1.3734-005 (125)	6.0853-005 (125)	9.5935-005 (125)	1.0310-004 (125)	6.4540-005 (125)
36	3.1378-006 (125)	2.9104-005 (125)	5.3094-005 (125)	7.2520-005 (143)	7.0812-005 (143)

PLANT NAME: EXAMPLE RUN POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY SECOND MAXIMUM 24-HOUR CONC= 1.8523-004 DIRECTION= 3 DISTANCE= 3.8 KM DAY=129

SECOND HIGHEST 24-HOUR CONCENTRATION AT EACH RECEPTOR

RANGE DIR	.9 KM	1.5 KM	2.0 KM	3.8 KM	6.2 KM
1	2.0883-006 (143)	2.3457-005 (125)	4.0341-005 (125)	4.5696-005 (143)	3.7703-005 (126)
2	5.4923-006 (143)	5.6629-005 (125)	9.2937-005 (126)	1.3108-004 (125)	7.9379-005 (125)
3	4.9244-006 (125)	7.5053-005 (125)	1.0727-004 (125)	1.8523-004 (129)	6.3499-005 (127)
4	3.5259-006 (145)	1.4828-004 (126)	1.1893-004 (145)	1.8335-004 (126)	8.9403-005 (129)
5	6.0292-006 (145)	1.1047-004 (142)	1.0411-004 (144)	7.3232-005 (145)	7.8574-005 (144)
6	8.2519-006 (143)	6.3988-005 (142)	5.0469-005 (142)	4.0941-005 (130)	4.1013-005 (133)
7	7.2719-006 (143)	5.4443-005 (143)	7.7204-005 (143)	1.0620-004 (131)	1.8369-004 (130)
8	1.3402-006 (140)	1.8012-005 (140)	2.8955-005 (140)	1.0175-004 (131)	6.8103-005 (131)
9	2.0266-007 (140)	3.3182-006 (140)	6.1503-006 (140)	6.9283-005 (140)	6.9254-005 (131)
10	8.6925-007 (140)	1.7222-005 (140)	5.2843-005 (130)	9.8471-005 (130)	6.4937-005 (130)
11	1.3326-006 (142)	2.4652-005 (131)	6.0666-005 (145)	7.2169-005 (145)	5.0604-005 (148)
12	4.3987-007 (148)	9.7347-006 (142)	1.1961-005 (130)	4.0161-005 (130)	3.1752-005 (130)
13	1.8690-007 (148)	1.0933-005 (148)	2.5392-005 (148)	5.0613-005 (142)	3.7289-005 (142)
14	3.7654-006 (148)	7.9386-005 (148)	9.7311-005 (148)	8.2802-005 (142)	5.7028-005 (142)
15	7.1923-006 (148)	1.4188-005 (148)	3.1670-005 (148)	8.0435-005 (142)	5.2194-005 (142)
16	9.6035-007 (148)	2.3150-006 (148)	6.9901-006 (148)	1.7293-005 (148)	1.0790-005 (148)
17	9.5974-009 (146)	2.9463-007 (145)	1.0610-007 (148)	4.6221-006 (145)	4.9609-006 (145)
18	2.0496-007 (146)	4.8715-006 (141)	3.5303-006 (142)	3.4125-005 (146)	3.6555-005 (148)
19	8.1472-007 (141)	1.1788-006 (146)	1.0735-006 (146)	2.4985-005 (146)	3.0707-005 (146)
20	1.7050-006 (141)	9.5723-006 (146)	5.9292-006 (146)	7.9211-006 (149)	4.6137-005 (149)
21	1.6298-006 (141)	3.5998-005 (146)	2.4275-005 (146)	1.2555-005 (146)	5.5074-005 (149)
22	1.0227-005 (143)	6.3309-005 (146)	4.5810-005 (146)	2.6006-005 (146)	1.6747-005 (146)
23	4.0019-005 (143)	2.4594-005 (143)	2.8691-005 (141)	4.0735-005 (141)	4.0022-005 (141)
24	3.0887-005 (146)	4.9808-005 (146)	3.7930-005 (142)	3.7879-005 (142)	2.9344-005 (142)
25	1.5487-005 (146)	5.3170-005 (143)	3.9987-005 (142)	3.7634-005 (142)	4.2927-005 (142)
26	1.2088-005 (146)	2.4594-005 (143)	2.5288-005 (142)	4.2360-005 (142)	7.7938-005 (146)
27	5.7245-006 (146)	8.2200-006 (142)	1.5114-005 (142)	4.4083-005 (132)	3.6729-005 (142)
28	1.0900-006 (146)	4.1966-006 (142)	1.2734-005 (142)	2.7217-005 (146)	2.6373-005 (142)
29	9.0165-008 (143)	1.8647-006 (125)	5.4124-006 (146)	2.4738-005 (146)	2.8259-005 (146)
30	3.8515-007 (132)	4.8901-006 (132)	7.9528-006 (125)	2.0234-005 (146)	2.9256-005 (146)
31	1.5893-006 (132)	3.7940-006 (132)	1.9784-005 (132)	1.4734-005 (125)	1.0026-005 (146)
32	3.4367-007 (142)	1.7349-006 (142)	8.1657-006 (132)	3.6090-005 (125)	5.9182-005 (126)
33	1.1450-006 (142)	1.0480-005 (142)	2.3928-005 (142)	3.8198-005 (142)	3.2410-005 (143)
34	1.1268-006 (142)	1.5695-005 (142)	3.5566-005 (142)	5.6543-005 (142)	3.7318-005 (142)
35	8.4581-007 (143)	1.3481-005 (143)	2.7525-005 (143)	3.7719-005 (143)	2.6319-005 (143)
36	9.7731-007 (143)	1.7062-005 (143)	3.7577-005 (143)	6.2039-005 (125)	3.5599-005 (125)

PLANT NAME: EXAMPLE RUN POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY MAXIMUM 8-HOUR CONC= 5.6054-004 DIRECTION= 20 DISTANCE= 2.0 KM DAY=141 TIME PERIOD= 2

HIGHEST 8-HOUR CONCENTRATION AT EACH RECEPTOR

RANGE DIR	.9 KM	1.5 KM	2.0 KM	3.8 KM	6.2 KM
1	1.0878-005 (126, 2)	9.9862-005 (126, 2)	1.6075-004 (126, 2)	1.6956-004 (126, 2)	1.1168-004 (143, 3)
2	2.0053-005 (126, 2)	1.7934-004 (126, 2)	2.7904-004 (125, 2)	3.0480-004 (125, 2)	1.6402-004 (125, 2)
3	4.2280-005 (142, 2)	2.7182-004 (126, 2)	4.0540-004 (126, 2)	4.2011-004 (126, 2)	2.1438-004 (126, 2)
4	9.7464-005 (142, 2)	4.7923-004 (145, 2)	4.2849-004 (126, 2)	5.0098-004 (126, 2)	2.8478-004 (126, 2)
5	1.1960-004 (142, 2)	4.5581-004 (145, 2)	4.2098-004 (145, 2)	3.5447-004 (144, 2)	2.1632-004 (144, 2)
6	7.4189-005 (142, 2)	2.2202-004 (143, 2)	2.8907-004 (143, 2)	1.9519-004 (143, 2)	1.0097-004 (143, 2)
7	2.3265-005 (142, 2)	1.7260-004 (140, 2)	2.6899-004 (140, 2)	3.3312-004 (140, 2)	5.3998-004 (140, 2)
8	5.6844-006 (143, 2)	6.8615-005 (131, 2)	1.3654-004 (131, 2)	3.2169-004 (134, 2)	2.6832-004 (134, 2)
9	4.6142-006 (131, 2)	9.0338-005 (131, 2)	1.6161-004 (131, 2)	3.1832-004 (131, 2)	1.8604-004 (131, 2)
10	8.8871-006 (131, 2)	9.0292-005 (131, 2)	2.3981-004 (131, 2)	3.5255-004 (131, 2)	2.2825-004 (131, 2)
11	4.3877-006 (131, 2)	1.3134-004 (148, 2)	2.9621-004 (148, 2)	2.1689-004 (148, 2)	1.9075-004 (145, 3)
12	3.2362-005 (142, 2)	1.5659-004 (148, 2)	2.3043-004 (148, 2)	3.1716-004 (148, 2)	2.1356-004 (148, 2)
13	1.4040-004 (142, 2)	1.4356-004 (142, 2)	1.0449-004 (142, 2)	2.8593-004 (148, 2)	2.3226-004 (148, 2)
14	3.4399-004 (142, 2)	3.8356-004 (142, 2)	2.9792-004 (142, 2)	2.5329-004 (148, 2)	1.6818-004 (148, 2)
15	4.4602-004 (142, 2)	4.9974-004 (142, 2)	4.0287-004 (142, 2)	2.2827-004 (142, 2)	1.8959-004 (148, 3)
16	3.7683-004 (142, 2)	3.2554-004 (142, 2)	2.5790-004 (142, 2)	1.3618-004 (142, 2)	8.3018-005 (142, 2)
17	8.0488-005 (142, 2)	1.0626-004 (142, 2)	7.7141-005 (142, 2)	3.3397-005 (142, 2)	1.6959-005 (142, 2)
18	1.2494-005 (142, 2)	1.6436-005 (142, 2)	1.2280-005 (141, 2)	1.0236-004 (146, 1)	1.0966-004 (148, 3)
19	7.5092-006 (146, 2)	6.3283-005 (141, 2)	2.5883-004 (141, 2)	2.4550-004 (141, 2)	1.4235-004 (141, 2)
20	4.7368-005 (146, 2)	2.8206-004 (141, 2)	5.6054-004 (141, 2)	4.3656-004 (141, 2)	3.5458-004 (141, 2)
21	1.5105-004 (146, 2)	3.2853-004 (141, 2)	3.9400-004 (141, 2)	2.9610-004 (141, 2)	2.1041-004 (141, 2)
22	2.4357-004 (146, 2)	2.2763-004 (141, 2)	3.1768-004 (141, 2)	3.0431-004 (141, 2)	1.5561-004 (141, 2)
23	2.0001-004 (146, 2)	1.6691-004 (146, 2)	1.6600-004 (146, 2)	1.7731-004 (146, 2)	1.3448-004 (146, 2)
24	2.3749-004 (143, 2)	1.5951-004 (143, 2)	2.0684-004 (146, 2)	2.5033-004 (146, 2)	1.8324-004 (146, 2)
25	2.3749-004 (143, 2)	2.6134-004 (146, 2)	3.7070-004 (146, 2)	3.5389-004 (146, 2)	2.2601-004 (146, 2)
26	1.2096-004 (143, 2)	3.2379-004 (146, 2)	4.5884-004 (146, 2)	4.0508-004 (146, 2)	2.3381-004 (146, 2)
27	3.0681-005 (143, 2)	1.5827-004 (146, 2)	2.1413-004 (146, 2)	1.6527-004 (146, 2)	9.9488-005 (142, 2)
28	4.0089-006 (143, 2)	2.3863-005 (146, 2)	3.8130-005 (142, 2)	9.2675-005 (142, 2)	7.9082-005 (142, 2)
29	1.2075-005 (125, 2)	5.5940-006 (125, 2)	1.5279-005 (146, 3)	7.3888-005 (146, 3)	8.4705-005 (146, 3)
30	7.2757-005 (125, 2)	3.8443-005 (125, 2)	3.8356-005 (132, 1)	9.8120-005 (132, 2)	1.1843-004 (132, 2)
31	2.2798-004 (125, 2)	1.2226-004 (125, 2)	8.2656-005 (125, 2)	2.1691-004 (132, 2)	2.4242-004 (132, 2)
32	3.0811-004 (125, 2)	1.8312-004 (125, 2)	1.2870-004 (125, 2)	1.2930-004 (132, 2)	1.2736-004 (132, 2)
33	2.2542-004 (125, 2)	1.7038-004 (125, 2)	1.4529-004 (125, 2)	1.1459-004 (142, 2)	1.3732-004 (125, 3)
34	1.1180-004 (125, 2)	2.1216-004 (125, 2)	2.7748-004 (125, 2)	2.3818-004 (125, 2)	1.2776-004 (125, 2)
35	4.1187-005 (125, 2)	1.8181-004 (125, 2)	2.8379-004 (125, 2)	2.9531-004 (125, 2)	1.7251-004 (125, 2)
36	9.4133-006 (125, 2)	8.7303-005 (125, 2)	1.5925-004 (125, 2)	1.8603-004 (125, 2)	1.5119-004 (143, 3)

PLANT NAME: EXAMPLE RUN POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY SECOND MAXIMUM 8-HOUR CONC= 4.2900-004 DIRECTION= 4 DISTANCE= 3.8 KM DAY=129 TIME PERIOD= 3

SECOND HIGHEST 8-HOUR CONCENTRATION AT EACH RECEPTOR

RANGE DIR	.9 KM	1.5 KM	2.0 KM	3.8 KM	6.2 KM
1	6.2479-006 (143, 2)	7.0237-005 (125, 2)	1.2035-004 (125, 2)	1.2913-004 (125, 2)	9.6356-005 (126, 2)
2	1.6473-005 (143, 2)	1.6614-004 (125, 2)	2.7151-004 (126, 2)	2.5531-004 (126, 2)	1.2687-004 (126, 2)
3	1.4762-005 (125, 2)	2.1974-004 (125, 2)	2.9944-004 (125, 2)	3.3054-004 (127, 2)	1.3061-004 (125, 2)
4	1.0298-005 (145, 2)	4.0777-004 (126, 2)	2.3641-004 (145, 2)	4.2900-004 (129, 3)	1.5500-004 (129, 3)
5	1.8019-005 (145, 2)	3.3142-004 (142, 2)	3.1004-004 (144, 2)	1.9086-004 (145, 2)	2.0548-004 (145, 2)
6	2.4756-005 (143, 2)	1.9192-004 (142, 2)	1.5113-004 (142, 2)	1.1131-004 (147, 2)	8.2355-005 (147, 2)
7	2.1816-005 (143, 2)	1.6333-004 (143, 2)	2.3161-004 (143, 2)	2.3419-004 (130, 2)	3.1784-004 (130, 2)
8	3.9466-006 (140, 2)	4.9652-005 (140, 2)	7.4793-005 (140, 2)	2.4577-004 (131, 2)	1.3890-004 (131, 2)
9	6.0685-007 (140, 2)	9.8939-006 (140, 2)	1.8187-005 (140, 2)	1.8161-004 (140, 2)	1.3465-004 (134, 2)
10	2.6078-006 (140, 2)	5.1665-005 (140, 2)	1.5853-004 (130, 2)	2.9541-004 (130, 2)	1.9481-004 (120, 2)
11	3.9975-006 (142, 2)	7.3870-005 (131, 2)	1.8200-004 (145, 3)	2.1651-004 (145, 3)	1.2891-004 (148, 2)
12	1.3196-006 (148, 2)	2.6752-005 (142, 2)	3.5623-005 (130, 1)	1.2038-004 (130, 1)	9.5227-005 (130, 1)
13	5.6069-007 (148, 2)	1.2799-005 (148, 2)	7.6177-005 (148, 2)	1.0411-004 (142, 3)	8.6358-005 (142, 3)
14	1.1294-005 (148, 2)	2.3705-004 (148, 2)	2.8905-004 (148, 2)	1.6084-004 (142, 2)	1.2955-004 (134, 1)
15	2.0468-005 (148, 2)	4.2067-005 (148, 2)	9.1570-005 (148, 2)	1.8360-004 (148, 3)	1.4829-004 (142, 2)
16	2.8180-006 (148, 2)	6.9355-006 (148, 2)	2.0888-005 (148, 2)	4.7993-005 (148, 2)	2.9714-005 (148, 2)
17	2.7603-008 (146, 2)	8.8390-007 (145, 3)	3.1666-007 (148, 2)	1.3866-005 (145, 3)	1.4883-005 (145, 3)
18	6.1467-007 (146, 2)	1.4330-005 (141, 2)	1.0591-005 (142, 2)	9.4763-005 (141, 2)	1.0221-004 (146, 1)
19	2.4441-006 (141, 2)	3.5359-006 (146, 2)	1.9983-006 (148, 3)	7.4449-005 (146, 1)	9.1960-005 (146, 1)
20	5.1124-006 (141, 2)	8.8717-005 (146, 2)	2.1681-005 (141, 3)	4.3719-005 (141, 3)	9.6960-005 (149, 3)
21	4.8710-006 (141, 2)	1.0799-004 (146, 2)	8.0701-005 (141, 1)	1.0732-004 (141, 1)	1.4135-004 (149, 3)
22	3.0681-005 (143, 2)	1.8993-004 (146, 2)	1.3743-004 (146, 2)	1.1175-004 (141, 1)	7.8067-005 (141, 1)
23	1.2006-004 (143, 2)	7.3783-005 (143, 2)	6.1049-005 (141, 2)	5.8103-005 (141, 2)	4.2577-005 (141, 1)
24	9.2660-005 (146, 2)	1.4943-004 (146, 2)	9.7777-005 (143, 2)	6.1541-005 (142, 1)	5.4754-005 (142, 1)
25	4.6460-005 (146, 2)	1.5951-004 (143, 2)	1.0175-004 (142, 2)	6.0556-005 (142, 2)	8.9237-005 (142, 1)
26	3.6263-005 (146, 2)	7.3783-005 (143, 2)	5.0337-005 (142, 2)	7.2207-005 (142, 1)	2.1475-004 (142, 1)
27	1.7173-005 (146, 2)	2.3138-005 (142, 2)	3.8513-005 (142, 2)	1.0788-004 (142, 2)	9.9392-005 (132, 3)
28	3.2564-006 (146, 2)	1.2570-005 (142, 2)	2.8787-005 (146, 2)	6.5139-005 (146, 3)	6.8231-005 (146, 3)
29	2.7050-007 (143, 2)	4.1415-006 (132, 1)	1.4445-005 (132, 1)	5.8987-005 (132, 3)	8.0611-005 (132, 3)
30	1.0150-006 (132, 1)	1.0449-005 (132, 1)	2.3658-005 (125, 2)	9.0389-005 (132, 1)	8.7768-005 (146, 3)
31	3.7987-006 (132, 2)	1.0166-005 (132, 2)	5.5350-005 (132, 2)	4.3783-005 (125, 2)	3.0077-005 (146, 3)
32	1.0310-006 (142, 2)	5.2048-006 (142, 2)	2.4482-005 (132, 2)	7.2970-005 (125, 2)	1.5468-004 (126, 3)
33	3.4350-006 (142, 2)	8.1441-005 (142, 2)	7.1784-005 (142, 2)	1.0104-004 (143, 2)	9.7229-005 (143, 2)
34	3.3803-006 (142, 2)	4.7086-005 (142, 2)	1.0670-004 (142, 2)	1.6963-004 (142, 2)	1.1341-004 (125, 3)
35	2.5129-006 (143, 2)	3.9331-005 (143, 2)	7.6712-005 (143, 2)	9.1592-005 (143, 2)	5.3368-005 (143, 2)
36	2.8814-006 (143, 2)	4.7222-005 (143, 2)	9.0014-005 (143, 2)	1.1126-004 (143, 3)	1.0649-004 (125, 2)

PLANT NAME: EXAMPLE RUN POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY MAXIMUM 3-HOUR CONC= 1.0173-003 DIRECTION= 4 DISTANCE= 1.5 KM DAY=145 TIME PERIOD= 5

DIR	RANGE .9 KM	HIGHEST 3-HOUR CONCENTRATION AT EACH RECEPTOR 1.5 KM	2.0 KM	3.8 KM	6.2 KM
1	2.8519-005 (126, 4)	2.6269-004 (126, 4)	4.2424-004 (126, 4)	4.4937-004 (126, 4)	2.5446-004 (126, 4)
2	4.7044-005 (126, 4)	3.9788-004 (126, 4)	5.8961-004 (126, 4)	5.4736-004 (125, 3)	3.9328-004 (125, 3)
3	1.1275-004 (142, 5)	5.3814-004 (125, 4)	6.8888-004 (125, 4)	7.9292-004 (129, 4)	3.7421-004 (126, 5)
4	2.5990-004 (142, 5)	1.0173-003 (145, 5)	5.6124-004 (142, 5)	8.5102-004 (129, 8)	3.0779-004 (129, 8)
5	3.1893-004 (142, 5)	8.8379-004 (142, 5)	7.1948-004 (142, 5)	4.1022-004 (142, 5)	2.6807-004 (142, 5)
6	1.9784-004 (142, 5)	5.9030-004 (143, 4)	7.6200-004 (143, 4)	5.0452-004 (143, 4)	2.5607-004 (143, 4)
7	6.2041-005 (142, 5)	4.3554-004 (143, 4)	6.1762-004 (143, 4)	5.9020-004 (143, 4)	6.4481-004 (130, 5)
8	1.5158-005 (143, 4)	1.0808-004 (143, 4)	1.6972-004 (143, 4)	4.3631-004 (130, 3)	3.1183-004 (134, 5)
9	7.2131-006 (131, 5)	1.2650-004 (131, 5)	2.2312-004 (131, 5)	5.0274-004 (131, 5)	3.2418-004 (140, 5)
10	2.0894-005 (131, 5)	1.8109-004 (131, 5)	4.2843-004 (131, 5)	6.9701-004 (131, 6)	6.3224-004 (131, 6)
11	1.1604-005 (131, 5)	2.6380-004 (148, 5)	5.0568-004 (148, 5)	4.1231-004 (145, 6)	2.7239-004 (145, 6)
12	7.6332-005 (142, 4)	1.9925-004 (148, 5)	2.8252-004 (148, 4)	3.3781-004 (148, 6)	2.6193-004 (148, 6)
13	3.0871-004 (142, 4)	2.6192-004 (142, 4)	1.9140-004 (142, 4)	3.6002-004 (148, 5)	2.8019-004 (148, 5)
14	6.7691-004 (142, 4)	5.6828-004 (142, 4)	5.5377-004 (148, 5)	4.0031-004 (148, 5)	3.4546-004 (134, 2)
15	7.4681-004 (142, 4)	7.6687-004 (142, 5)	6.3627-004 (142, 5)	4.8961-004 (148, 6)	5.0558-004 (148, 6)
16	3.7754-004 (142, 4)	6.0664-004 (142, 5)	4.9633-004 (142, 5)	2.7064-004 (142, 5)	1.6959-004 (142, 5)
17	1.2816-004 (142, 5)	2.2711-004 (142, 5)	1.6917-004 (142, 5)	7.5960-005 (142, 5)	3.9687-005 (145, 4)
18	2.3249-005 (142, 5)	3.8275-005 (142, 5)	2.5194-005 (142, 5)	2.7297-004 (146, 1)	2.9284-004 (148, 7)
19	2.0025-005 (146, 5)	1.0324-004 (141, 5)	3.5255-004 (141, 5)	3.3089-004 (141, 4)	2.4369-004 (146, 1)
20	1.2631-004 (146, 5)	5.0075-004 (141, 5)	8.4681-004 (141, 5)	5.6910-004 (141, 5)	3.7896-004 (141, 5)
21	4.0280-004 (146, 5)	5.2160-004 (141, 5)	5.6368-004 (141, 5)	4.2419-004 (141, 5)	3.4687-004 (141, 2)
22	6.4933-004 (146, 5)	4.9286-004 (146, 5)	4.6240-004 (141, 5)	4.5137-004 (141, 5)	2.7211-004 (141, 4)
23	5.2946-004 (146, 5)	3.8335-004 (146, 5)	2.7147-004 (146, 5)	1.9892-004 (146, 3)	1.7139-004 (146, 3)
24	6.3330-004 (143, 5)	4.2536-004 (143, 5)	2.6079-004 (143, 5)	2.3193-004 (146, 6)	1.9965-004 (146, 6)
25	6.3330-004 (143, 5)	4.2536-004 (143, 5)	6.1136-004 (146, 4)	6.5442-004 (146, 4)	4.6134-004 (146, 4)
26	3.2015-004 (143, 5)	4.6760-004 (146, 5)	6.5042-004 (146, 5)	5.4258-004 (146, 5)	3.4727-004 (142, 3)
27	8.1817-005 (143, 5)	2.2963-004 (146, 5)	3.0732-004 (146, 5)	2.3097-004 (146, 5)	2.0822-004 (132, 6)
28	1.0669-005 (143, 5)	3.2576-005 (146, 4)	9.7206-005 (142, 6)	2.0634-004 (142, 6)	1.8193-004 (146, 6)
29	3.2200-005 (125, 4)	1.4917-005 (125, 4)	4.0731-005 (146, 6)	1.9517-004 (146, 6)	2.2266-004 (132, 6)
30	1.9402-004 (125, 4)	1.0251-004 (125, 4)	1.1758-004 (132, 3)	2.8138-004 (132, 3)	2.7320-004 (132, 6)
31	6.0770-004 (125, 4)	3.2587-004 (125, 4)	2.2028-004 (125, 4)	2.6535-004 (132, 3)	2.6986-004 (132, 3)
32	8.1495-004 (125, 4)	4.7914-004 (125, 4)	3.3324-004 (125, 4)	1.9028-004 (125, 4)	3.6531-004 (126, 7)
33	5.5183-004 (125, 4)	3.2587-004 (125, 4)	2.2028-004 (125, 4)	2.6851-004 (143, 6)	2.8677-004 (125, 6)
34	1.8974-004 (125, 4)	9.6107-004 (125, 5)	6.7295-004 (125, 5)	6.0605-004 (125, 5)	3.2664-004 (125, 5)
35	7.9485-005 (125, 5)	4.3867-004 (125, 5)	6.9096-004 (125, 5)	7.2744-004 (125, 5)	4.3069-004 (125, 5)
36	1.6329-005 (125, 5)	1.2590-004 (143, 5)	2.3995-004 (143, 5)	2.8336-004 (143, 5)	2.6459-004 (143, 6)

PLANT NAME: EXAMPLE RUN POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY SECOND MAXIMUM 3-HOUR CONC= 7.2273-004 DIRECTION= 3 DISTANCE= 3.8 KM DAY=126 TIME PERIOD= 5

SECOND HIGHEST 3-HOUR CONCENTRATION AT EACH RECEPTOR

RANGE DIR	.9 KM	1.5 KM	2.0 KM	3.8 KM	6.2 KM
1	1.6661-005 (143, 5)	1.1511-004 (143, 5)	1.9027-004 (125, 6)	2.3340-004 (125, 6)	2.5460-004 (143, 6)
2	4.3926-005 (143, 5)	3.6959-004 (125, 4)	5.4186-004 (125, 4)	5.1837-004 (126, 4)	2.7137-004 (127, 6)
3	3.8996-005 (125, 4)	4.2707-004 (126, 5)	6.7362-004 (126, 5)	7.2273-004 (126, 5)	2.8012-004 (129, 4)
4	2.7445-005 (145, 5)	7.0277-004 (142, 5)	8.1535-004 (145, 5)	6.4366-004 (145, 5)	2.7980-004 (126, 6)
5	4.7992-005 (145, 5)	6.4695-004 (145, 5)	5.2068-004 (145, 6)	2.7705-004 (144, 6)	2.5660-004 (144, 6)
6	6.6006-005 (143, 4)	5.1179-004 (142, 5)	4.0301-004 (142, 5)	2.7459-004 (147, 4)	2.1126-004 (133, 5)
7	5.8175-005 (143, 4)	3.3363-004 (140, 5)	5.0056-004 (140, 5)	5.6265-004 (130, 8)	5.9883-004 (134, 6)
8	9.8353-006 (142, 5)	9.1302-005 (140, 4)	1.6104-004 (131, 4)	4.0372-004 (134, 5)	3.0091-004 (130, 3)
9	5.0518-006 (131, 4)	1.1302-004 (131, 4)	2.0508-004 (131, 4)	4.3733-004 (140, 5)	3.0135-004 (145, 7)
10	6.9537-006 (140, 4)	1.3773-004 (140, 4)	4.0398-004 (140, 4)	5.9278-004 (130, 8)	4.1337-004 (134, 4)
11	9.8614-006 (142, 4)	1.9241-004 (131, 5)	4.5894-004 (145, 6)	3.3627-004 (148, 5)	2.3604-004 (145, 8)
12	9.9662-006 (142, 5)	1.7506-004 (148, 4)	2.2286-004 (148, 5)	3.2196-004 (148, 4)	2.5394-004 (130, 3)
13	6.5685-005 (142, 5)	1.2091-004 (142, 5)	1.2665-004 (148, 4)	3.1036-004 (148, 4)	2.3029-004 (142, 6)
14	2.4039-004 (142, 5)	5.1517-004 (148, 5)	4.3804-004 (142, 4)	2.4585-004 (142, 4)	2.4184-004 (148, 5)
15	4.4257-004 (142, 5)	5.6577-004 (142, 4)	4.3804-004 (142, 4)	3.8938-004 (148, 4)	2.7090-004 (148, 4)
16	3.6067-004 (142, 5)	2.6148-004 (142, 4)	1.9140-004 (142, 4)	1.2746-004 (148, 4)	7.9091-005 (148, 4)
17	8.6476-005 (142, 4)	5.6240-005 (142, 4)	3.6541-005 (142, 4)	3.6977-005 (145, 8)	3.9640-005 (142, 5)
18	1.0073-005 (142, 4)	1.3463-005 (141, 4)	1.1940-005 (141, 4)	2.3513-004 (141, 6)	2.7256-004 (146, 1)
19	5.0539-006 (141, 5)	6.5464-005 (141, 4)	3.2818-004 (141, 4)	2.7989-004 (141, 5)	1.9676-004 (141, 4)
20	1.1505-005 (141, 5)	2.4830-004 (141, 4)	5.9621-004 (141, 4)	4.9656-004 (141, 4)	3.7007-004 (141, 4)
21	1.0570-005 (143, 5)	3.4262-004 (141, 4)	4.6143-004 (141, 4)	3.5038-004 (141, 4)	2.7507-004 (141, 5)
22	8.1817-005 (143, 5)	3.5648-004 (141, 5)	3.8473-004 (141, 4)	3.6011-004 (141, 4)	2.0818-004 (141, 3)
23	3.2015-004 (143, 5)	1.9675-004 (143, 5)	1.1393-004 (143, 5)	1.4756-004 (146, 5)	1.1354-004 (141, 3)
24	2.2325-004 (146, 5)	3.2155-004 (142, 4)	2.4930-004 (142, 4)	2.2895-004 (146, 4)	1.4567-004 (142, 3)
25	7.6950-005 (142, 4)	4.0703-004 (146, 4)	3.6755-004 (146, 5)	2.7481-004 (146, 5)	1.3186-004 (146, 5)
26	5.1723-005 (146, 5)	3.9584-004 (146, 4)	5.7312-004 (146, 4)	5.3762-004 (146, 4)	3.3230-004 (146, 4)
27	2.4877-005 (146, 5)	1.9244-004 (146, 4)	2.6371-004 (146, 4)	2.0976-004 (146, 4)	1.4741-004 (142, 5)
28	4.3434-006 (146, 4)	3.1060-005 (146, 5)	5.0984-005 (132, 5)	1.7379-004 (146, 5)	1.7425-004 (142, 6)
29	7.2132-007 (143, 5)	1.1079-005 (132, 3)	3.8635-005 (132, 3)	1.8572-004 (132, 6)	2.0972-004 (146, 6)
30	2.9972-006 (132, 3)	3.1431-005 (132, 3)	6.3622-005 (125, 4)	2.6413-004 (132, 6)	2.5740-004 (132, 3)
31	1.1027-005 (132, 3)	1.9894-005 (132, 3)	8.8412-005 (132, 3)	1.9246-004 (132, 6)	1.9294-004 (122, 5)
32	6.6892-006 (125, 5)	1.2713-005 (142, 5)	3.4584-005 (132, 5)	1.6171-004 (132, 5)	3.1576-004 (132, 4)
33	4.9289-005 (125, 5)	1.2843-004 (125, 5)	1.6711-004 (125, 5)	2.3362-004 (125, 6)	2.5901-004 (143, 6)
34	1.0815-004 (125, 5)	1.1931-004 (142, 5)	2.4156-004 (142, 5)	3.0406-004 (142, 5)	3.0011-004 (125, 6)
35	8.3351-005 (125, 4)	1.6412-004 (143, 5)	2.0095-004 (143, 5)	2.3583-004 (143, 5)	1.3719-004 (143, 5)
36	7.6837-006 (143, 5)	1.1694-004 (125, 5)	2.2096-004 (125, 6)	2.7420-004 (125, 6)	2.1402-004 (126, 6)

PLANT NAME: EXAMPLE RUN POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY MAXIMUM 1-HOUR CONC= 2.6514-003 DIRECTION= S DISTANCE= 1.5 KM DAY=142 HOUR=13

HIGHEST 1-HOUR CONCENTRATION AT EACH RECEPTOR

RANGE DIR	.9 KM	1.5 KM	2.0 KM	3.8 KM	6.2 KM
1	7.0466-005 (126,12)	4.3053-004 (126,12)	7.0929-004 (126,11)	9.1549-004 (126,11)	7.1863-004 (144,18)
2	1.3117-004 (143,13)	8.8528-004 (126,12)	1.1945-003 (126,12)	9.9766-004 (127,18)	7.3867-004 (127,18)
3	3.3824-004 (142,13)	1.0182-003 (125,10)	1.2534-003 (125,10)	1.2630-003 (126,14)	8.3267-004 (144, 8)
4	7.7971-004 (142,13)	2.1083-003 (142,13)	1.6837-003 (142,13)	1.2727-003 (145,15)	6.7285-004 (145, 7)
5	9.5678-004 (142,13)	2.6514-003 (142,13)	2.1584-003 (142,13)	1.2307-003 (142,13)	8.0422-004 (142,13)
6	5.9351-004 (142,13)	1.5354-003 (142,13)	1.2090-003 (142,13)	8.3839-004 (143,12)	5.4984-004 (147,12)
7	1.8612-004 (142,13)	7.3653-004 (143,11)	9.1266-004 (143,11)	8.3665-004 (140, 8)	9.1920-004 (140,16)
8	3.4265-005 (143,11)	2.7339-004 (140,11)	4.3104-004 (140,11)	1.3089-003 (130, 7)	9.0004-004 (130, 7)
9	1.5187-005 (131,14)	3.3383-004 (131,14)	6.0336-004 (131,14)	1.3116-003 (140,15)	9.7244-004 (140,15)
10	6.1070-005 (131,13)	5.1278-004 (131,13)	1.2119-003 (140,12)	1.2123-003 (130,12)	9.7054-004 (141, 1)
11	3.4803-005 (131,13)	7.9141-004 (148,14)	1.5170-003 (148,14)	1.2369-003 (145,17)	8.1716-004 (145,17)
12	2.2899-004 (142,12)	5.8631-004 (148,14)	8.2299-004 (148,10)	1.0134-003 (148,16)	7.8578-004 (148,16)
13	9.2612-004 (142,12)	7.8575-004 (142,12)	5.7419-004 (142,12)	9.4352-004 (148,15)	7.7617-004 (148,15)
14	2.0307-003 (142,12)	1.7048-003 (142,12)	1.6581-003 (148,13)	1.1983-003 (148,13)	7.2438-004 (148,13)
15	2.2404-003 (142,12)	2.3006-003 (142,14)	1.9088-003 (142,14)	1.1574-003 (148,11)	8.3788-004 (148,18)
16	1.1326-003 (142,12)	1.8199-003 (142,14)	1.4890-003 (142,14)	8.1193-004 (142,14)	5.0877-004 (142,14)
17	3.8448-004 (142,14)	6.8133-004 (142,14)	5.0751-004 (142,14)	2.2788-004 (142,14)	1.1906-004 (145,24)
18	6.9731-005 (142,14)	1.1483-004 (142,14)	7.5583-005 (142,14)	8.1746-004 (146, 1)	8.1654-004 (146, 1)
19	6.0074-005 (146,13)	2.6418-004 (141,15)	9.1944-004 (141,15)	9.3570-004 (141,12)	7.2824-004 (146, 2)
20	3.7894-004 (146,13)	8.0828-004 (141,13)	1.3929-003 (141,13)	9.4565-004 (141,13)	6.9402-004 (141,10)
21	1.2084-003 (146,13)	8.6378-004 (146,13)	1.0226-003 (141,14)	9.5432-004 (141,14)	9.3296-004 (141, 7)
22	1.9480-003 (146,13)	1.4785-003 (146,13)	1.3781-003 (141,14)	1.3515-003 (141,14)	8.1440-004 (141,11)
23	1.5875-003 (146,13)	1.1450-003 (146,13)	8.0941-004 (146,13)	5.9676-004 (146, 9)	5.1418-004 (146, 9)
24	1.8999-003 (143,14)	1.2761-003 (143,14)	7.8221-004 (143,14)	6.9580-004 (146,16)	5.9894-004 (146,16)
25	1.8999-003 (143,14)	1.2761-003 (143,14)	1.0658-003 (146,11)	9.6325-004 (146,10)	8.7025-004 (146,10)
26	9.6045-004 (143,14)	7.0328-004 (146,14)	9.8534-004 (146,14)	8.2890-004 (146,14)	1.0382-003 (142, 7)
27	2.4545-004 (143,14)	5.1331-004 (146,12)	7.0440-004 (146,12)	5.6510-004 (132,18)	6.2464-004 (132,18)
28	3.2007-005 (143,14)	9.5732-005 (146,12)	2.9162-004 (142,16)	6.1901-004 (142,16)	5.4379-004 (146,17)
29	9.6599-005 (125,12)	4.4752-005 (125,12)	1.1553-004 (132, 8)	4.5535-004 (132,17)	5.9086-004 (132,17)
30	5.8205-004 (125,12)	3.0754-004 (125,12)	3.0685-004 (132, 8)	7.2708-004 (132, 8)	6.7514-004 (132, 8)
31	1.8231-003 (125,12)	9.7761-004 (125,12)	6.6083-004 (125,12)	7.4122-004 (132, 9)	7.6986-004 (132, 9)
32	2.4448-003 (125,12)	1.4374-003 (125,12)	9.9972-004 (125,12)	5.7085-004 (125,12)	7.6709-004 (132,12)
33	1.6555-003 (125,12)	9.7761-004 (125,12)	6.6083-004 (125,12)	8.0554-004 (143,16)	7.7703-004 (143,16)
34	5.6921-004 (125,12)	6.8646-004 (125,13)	9.5622-004 (125,13)	9.1218-004 (142,15)	8.7075-004 (125,17)
35	1.1956-004 (125,15)	6.2042-004 (125,15)	8.5488-004 (125,15)	9.2421-004 (125,14)	6.5345-004 (125,14)
36	2.8561-005 (125,15)	3.5886-004 (143,15)	6.9949-004 (143,15)	8.4114-004 (143,15)	7.5369-004 (143,18)

PLANT NAME: EXAMPLE RUN POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY SECOND MAXIMUM 1-HOUR CONC= 1.7800-003 DIRECTION= 4 DISTANCE= 1.5 KM DAY=145 HOUR=15

SECOND HIGHEST 1-HOUR CONCENTRATION AT EACH RECEPTOR

RANGE DIR	.9 KM	1.5 KM	2.0 KM	3.8 KM	6.2 KM
1	4.4017-005 (143,13)	3.5710-004 (126,11)	5.7080-004 (125,16)	7.0020-004 (125,16)	6.9700-004 (143,17)
2	1.2723-004 (126,12)	8.6351-004 (143,13)	1.1494-003 (143,13)	9.7467-004 (132,11)	6.6492-004 (132,11)
3	1.0005-004 (129,12)	1.0000-003 (129,12)	1.0658-003 (126,13)	1.2126-003 (144, 8)	6.9476-004 (126,14)
4	8.2027-005 (145,14)	1.7800-003 (145,15)	1.2155-003 (127,13)	1.2698-003 (129,22)	6.4419-004 (126, 9)
5	1.4394-004 (145,14)	1.6285-003 (145,14)	1.2292-003 (145,14)	7.9885-004 (144,16)	6.9608-004 (143, 9)
6	1.2011-004 (143,11)	8.8502-004 (143,12)	1.1954-003 (143,12)	7.8624-004 (147,12)	5.0246-004 (133,14)
7	1.2011-004 (143,11)	5.2872-004 (140,13)	7.9729-004 (140,13)	8.0154-004 (140,13)	8.8982-004 (140,10)
8	2.9506-005 (142,13)	2.0654-004 (131,11)	4.1687-004 (131,11)	1.1274-003 (134,15)	8.8174-004 (134,15)
9	1.4753-005 (131,12)	3.2958-004 (131,12)	5.9914-004 (131,12)	1.0088-003 (131,14)	8.6233-004 (134,14)
10	2.0859-005 (140,12)	4.1318-004 (140,12)	1.1021-003 (131,13)	1.1953-003 (140,12)	7.8004-004 (131,16)
11	2.9584-005 (142,12)	5.7693-004 (131,13)	1.3768-003 (145,17)	1.0088-003 (148,14)	6.9170-004 (145,23)
12	2.9898-005 (142,14)	5.1176-004 (148,10)	6.4155-004 (148,14)	9.6301-004 (130, 8)	7.6182-004 (130, 8)
13	1.9705-004 (142,14)	3.6273-004 (142,14)	3.4831-004 (148,12)	8.9727-004 (148,12)	6.9087-004 (142,17)
14	7.2117-004 (142,14)	1.5434-003 (148,13)	1.3141-003 (142,12)	7.3756-004 (142,12)	5.6832-004 (142,17)
15	1.3277-003 (142,14)	1.6973-003 (142,12)	1.3141-003 (142,12)	1.0886-003 (142,14)	8.0777-004 (146,11)
16	1.0820-003 (142,14)	7.8445-004 (142,12)	5.7419-004 (142,12)	3.8238-004 (148,11)	2.3724-004 (148,11)
17	2.5943-004 (142,12)	1.6872-004 (142,12)	1.0962-004 (142,12)	1.1093-004 (145,24)	1.1904-004 (142,14)
18	3.0220-005 (142,12)	4.0187-005 (141,12)	3.5669-005 (141,12)	7.0538-004 (141,16)	6.0639-004 (141,16)
19	1.2485-005 (141,15)	1.8309-004 (141,12)	9.1581-004 (141,12)	7.5325-004 (141,15)	5.6382-004 (141,12)
20	1.6773-005 (141,13)	5.8464-004 (141,15)	9.8954-004 (141,15)	8.8589-004 (141,10)	6.4815-004 (141,13)
21	3.1710-005 (143,14)	8.4896-004 (141,14)	7.2965-004 (141,11)	8.3233-004 (141, 7)	6.2818-004 (149,18)
22	2.4545-004 (143,14)	1.0586-003 (141,14)	1.1415-003 (141,11)	1.0753-003 (141,11)	5.2649-004 (141, 8)
23	9.6045-004 (143,14)	5.9026-004 (143,14)	3.4179-004 (143,14)	4.4098-004 (146,13)	3.4041-004 (141, 8)
24	6.5400-004 (146,13)	9.6465-004 (142,11)	7.4785-004 (142,11)	4.9200-004 (142, 8)	4.3696-004 (142, 8)
25	2.3085-004 (142,11)	1.0420-003 (142,11)	8.1240-004 (142,11)	8.0132-004 (146,11)	4.2598-004 (146,11)
26	1.2494-004 (142,11)	6.9391-004 (146,15)	9.6323-004 (146,15)	7.9831-004 (146,15)	6.6685-004 (142, 5)
27	5.2441-005 (146,12)	4.6216-004 (146,14)	6.2984-004 (146,14)	5.6146-004 (146,12)	4.4144-004 (132,13)
28	1.2548-005 (146,12)	8.7503-005 (142,16)	1.5295-004 (132,13)	5.1839-004 (146,17)	5.2275-004 (142,16)
29	2.1640-006 (143,14)	3.3132-005 (132, 8)	8.9050-005 (146,17)	3.5836-004 (146,17)	3.6146-004 (146,17)
30	8.1200-006 (132, 8)	8.3592-005 (132, 8)	1.9087-004 (125,12)	5.7479-004 (132,16)	6.2725-004 (146,18)
31	2.5377-005 (132, 9)	5.0037-005 (132, 9)	2.3383-004 (132, 9)	5.7479-004 (132,16)	5.5551-004 (132,16)
32	1.2837-005 (125,13)	3.8138-005 (142,15)	1.0374-004 (132,14)	4.8409-004 (132,14)	6.6707-004 (132,14)
33	8.5596-005 (125,13)	2.3521-004 (142,15)	4.6322-004 (142,15)	5.8990-004 (125,18)	7.4377-004 (125,18)
34	1.6699-004 (125,13)	6.2042-004 (125,15)	8.5488-004 (125,15)	7.9604-004 (125,13)	5.6531-004 (142,15)
35	1.0015-004 (125,13)	5.1887-004 (125,13)	7.0955-004 (125,13)	7.0742-004 (143,15)	4.1156-004 (143,15)
36	1.8608-005 (125,13)	3.2910-004 (125,16)	6.6263-004 (125,16)	8.2218-004 (125,16)	6.4205-004 (126,18)

PLANT NAME: EXAMPLE RUN POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

MAXIMUM DAILY CONCENTRATIONS

DAY	24-HOUR CONCENTRATION	DIRECTION	DISTANCE
129	2.4787-004	4	3.80
140	2.3023-004	7	6.20
145	2.0161-004	4	1.50
141	1.9805-004	20	2.00
126	1.8872-004	3	3.80
130	1.8369-004	7	6.20
127	1.6966-004	3	3.80
142	1.6690-004	15	1.50
131	1.6501-004	10	3.80
128	1.6245-004	4	3.80
146	1.5295-004	26	2.00
134	1.5289-004	7	6.20
125	1.3108-004	2	3.80
144	1.2962-004	4	3.80
148	1.2128-004	15	3.80
143	9.6358-005	6	2.00
132	8.6017-005	30	6.20
133	8.6012-005	7	6.20
147	8.0575-005	7	6.20
149	5.5074-005	21	6.20

PLANT NAME: EXAMPLE RUN POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

MAXIMUM 8-HOURLY CONCENTRATIONS

DAY	8-HOUR CONCENTRATION	DIRECTION	DISTANCE	TIME PERIOD
141	5.6054-004	20	2.00	2
140	5.3998-004	7	6.20	2
126	5.0098-004	4	3.80	2
142	4.9974-004	15	1.50	2
145	4.7923-004	4	1.50	2
146	4.5884-004	26	2.00	2
145	4.5581-004	5	1.50	2
142	4.4602-004	15	.90	2
141	4.3656-004	20	3.80	2
129	4.2900-004	4	3.80	3
126	4.2849-004	4	2.00	2
145	4.2098-004	5	2.00	2
126	4.2011-004	3	3.80	2
126	4.0777-004	4	1.50	2
126	4.0540-004	3	2.00	2
146	4.0508-004	26	3.80	2
142	4.0287-004	15	2.00	2
141	3.9400-004	21	2.00	2
142	3.8356-004	14	1.50	2
146	3.7070-004	25	2.00	2
141	3.5458-004	20	6.20	2
146	3.5389-004	25	3.80	2
131	3.5255-004	10	3.80	2
144	3.5241-004	4	3.80	2
142	3.4399-004	14	.90	2
140	3.3312-004	7	3.80	2
127	3.3265-004	4	3.80	2
142	3.3142-004	5	1.50	2
127	3.3132-004	4	1.50	2
127	3.3054-004	3	3.80	2
141	3.2853-004	21	1.50	2
129	3.2731-004	3	3.80	2
142	3.2554-004	16	1.50	2
146	3.2379-004	26	1.50	2
134	3.2169-004	8	3.80	2
145	3.2150-004	4	3.80	2
131	3.1832-004	9	3.80	2
130	3.1784-004	7	6.20	2
141	3.1768-004	22	2.00	2
148	3.1716-004	12	3.80	2
144	3.1004-004	5	2.00	2
125	3.0811-004	32	.90	2
129	3.0555-004	4	3.80	2
125	3.0480-004	2	3.80	2
141	3.0431-004	22	3.80	2
125	2.9944-004	3	2.00	2
142	2.9792-004	14	2.00	2
148	2.9621-004	11	2.00	2
141	2.9610-004	21	3.80	2
130	2.9541-004	10	3.80	2

PLANT NAME: EXAMPLE RUN POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

MAXIMUM 3-HOURLY CONCENTRATIONS

DAY	3-HOUR CONCENTRATION	DIRECTION	DISTANCE	TIME PERIOD
145	1.0173-003	4	1.50	5
142	8.8379-004	5	1.50	5
129	8.5102-004	4	3.80	8
141	8.4681-004	20	2.00	5
125	8.1495-004	32	.90	4
129	7.9292-004	3	3.80	4
142	7.6687-004	15	1.50	5
143	7.6200-004	6	2.00	4
142	7.4681-004	15	.90	4
125	7.2744-004	35	3.80	5
126	7.2273-004	3	3.80	5
142	7.1948-004	5	2.00	5
142	7.0277-004	4	1.50	5
131	6.9701-004	10	3.80	6
125	6.9096-004	35	2.00	5
125	6.8888-004	3	2.00	4
142	6.7691-004	14	.90	4
126	6.7362-004	3	2.00	5
125	6.7295-004	34	2.00	5
146	6.5442-004	25	3.80	4
146	6.5042-004	26	2.00	5
146	6.4933-004	22	.90	5
145	6.4695-004	5	1.50	5
130	6.4481-004	7	6.20	5
145	6.4366-004	4	3.80	5
142	6.3627-004	15	2.00	5
130	6.3352-004	4	3.80	1
143	6.3330-004	24	.90	5
143	6.3330-004	25	.90	5
131	6.3224-004	10	6.20	6
143	6.1762-004	7	2.00	4
146	6.1136-004	25	2.00	4
125	6.0770-004	31	.90	4
142	6.0664-004	16	1.50	5
125	6.0605-004	34	3.80	5
134	5.9883-004	7	6.20	6
141	5.9621-004	20	2.00	4
144	5.9349-004	4	3.80	4
130	5.9270-004	10	3.80	4
127	5.9032-004	4	1.50	5
143	5.9030-004	6	1.50	4
143	5.9020-004	7	3.80	4
126	5.8961-004	2	2.00	4
140	5.7648-004	7	6.20	3
146	5.7312-004	26	2.00	4
141	5.6910-004	20	3.80	5
142	5.6828-004	14	1.50	4
142	5.6577-004	15	1.50	4
141	5.6368-004	21	2.00	5
130	5.6265-004	7	3.80	5

PLANT NAME: EXAMPLE RUN POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

MAXIMUM HOURLY CONCENTRATIONS

DAY	1-HOUR CONCENTRATION	DIRECTION	DISTANCE	HOUR
142	2.6514-003	5	1.50	13
125	2.4448-003	32	.90	12
142	2.3006-003	15	1.50	14
142	2.2404-003	15	.90	12
142	2.1584-003	5	2.00	13
142	2.1083-003	4	1.50	13
142	2.0307-003	14	.90	12
146	1.9480-003	22	.90	13
142	1.9088-003	15	2.00	14
143	1.8999-003	24	.90	14
143	1.8999-003	25	.90	14
125	1.8231-003	31	.90	12
142	1.8199-003	16	1.50	14
145	1.7800-003	4	1.50	15
127	1.7569-003	4	1.50	13
142	1.7048-003	14	1.50	12
142	1.6973-003	15	1.50	12
142	1.6837-003	4	2.00	13
148	1.6581-003	14	2.00	13
125	1.6555-003	33	.90	12
145	1.6285-003	5	1.50	14
146	1.5875-003	23	.90	13
148	1.5434-003	14	1.50	13
142	1.5354-003	6	1.50	13
148	1.5170-003	11	2.00	14
142	1.4890-003	16	2.00	14
146	1.4785-003	22	1.50	13
125	1.4374-003	32	1.50	12
141	1.3929-003	20	2.00	13
141	1.3781-003	22	2.00	14
145	1.3768-003	11	2.00	17
142	1.3637-003	14	1.50	14
141	1.3515-003	22	3.80	14
142	1.3277-003	15	.90	14
142	1.3141-003	14	2.00	12
142	1.3141-003	15	2.00	12
140	1.3116-003	9	3.80	15
130	1.3089-003	8	3.80	7
143	1.2761-003	24	1.50	14
143	1.2761-003	25	1.50	14
145	1.2727-003	4	3.80	15
129	1.2698-003	4	3.80	22
126	1.2630-003	3	3.80	14
125	1.2534-003	3	2.00	10
145	1.2369-003	11	3.80	17
142	1.2307-003	5	3.80	13
145	1.2292-003	5	2.00	14
127	1.2155-003	4	2.00	13
144	1.2126-003	3	3.80	8
130	1.2123-003	10	3.80	12

JXQT U.ABS16

ISCST (VERSION 80339)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 3. MODELS PROPOSED SEP80 FOR 81 GUIDELINES.
IN UNAMAP (VERSION 4) DEC 80
SOURCE: FILE 16 ON UNAMAP MAGNETIC TAPE FROM NTIS.

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 1
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 2
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 2
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)	
WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 0
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 0
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE	
SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 1
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RURAL=0,URBAN MODE 1=1,URBAN MODE 2=2)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 2
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 1
NUMBER OF INPUT SOURCES	NSOURC = 16
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 2
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 9
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 19
NUMBER OF DISCRETE RECEPTORS	NXWYPT = 64
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	FK = .10000+007
ENTRAINMENT COEFFICIENT FOR UNSTABLE ATMOSPHERE	BETA1 = .600
ENTRAINMENT COEFFICIENT FOR STABLE ATMOSPHERE	BETA2 = .600
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 10.00 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY = .000000
SURFACE STATION NO.	ISS = 93814
YEAR OF SURFACE DATA	ISY = 64

```
UPPER AIR STATION NO.                          IUS = 93815
YEAR OF UPPER AIR DATA                         IUY = 64
ALLOCATED DATA STORAGE                       LIMIT = 43500 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN   MIMIT =  7288 WORDS
```

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
1 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 1 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0
```

*** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
(NSOGRP)

1, 2,

*** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
(IDSOR)

1, 2, -16,

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.10000+000	.10000+000	.10000+000	.10000+000	.10000+000	.10000+000
B	.15000+000	.15000+000	.15000+000	.15000+000	.15000+000	.15000+000
C	.20000+000	.20000+000	.20000+000	.20000+000	.20000+000	.20000+000
D	.25000+000	.25000+000	.25000+000	.25000+000	.25000+000	.25000+000
E	.30000+000	.30000+000	.30000+000	.30000+000	.30000+000	.30000+000
F	.30000+000	.30000+000	.30000+000	.30000+000	.30000+000	.30000+000

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000	.00000	.00000	.00000	.00000	.00000
B	.00000	.00000	.00000	.00000	.00000	.00000
C	.00000	.00000	.00000	.00000	.00000	.00000
D	.00000	.00000	.00000	.00000	.00000	.00000
E	.20000-001	.20000-001	.20000-001	.20000-001	.20000-001	.20000-001
F	.35000-001	.35000-001	.35000-001	.35000-001	.35000-001	.35000-001

*** X-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

.0, 200.0, 400.0, 600.0, 800.0, 1000.0, 1250.0, 1500.0, 2000.0,

*** Y-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

-3000.0, -2000.0, -1500.0, -1250.0, -1000.0, -800.0, -600.0, -400.0, -200.0, .0,
200.0, 400.0, 600.0, 800.0, 1000.0, 1250.0, 1500.0, 2000.0, 3000.0,

*** RANGE,THETA COORDINATES OF DISCRETE RECEPTORS ***
(METERS,DEGREES)

(	555.0,	317.0),	(	620.0,	318.0),	(	685.0,	320.0),	(	735.0,	322.0),	(	800.0,	326.0),
(	860.0,	331.0),	(	900.0,	336.0),	(	920.0,	341.0),	(	940.0,	346.0),	(	940.0,	351.0),
(	935.0,	356.0),	(	910.0,	1.0),	(	950.0,	6.0),	(	1015.0,	11.0),	(	1055.0,	16.0),
(	1075.0,	21.0),	(	1075.0,	26.0),	(	1045.0,	31.0),	(	995.0,	36.0),	(	910.0,	41.0),
(	855.0,	43.0),	(	755.0,	45.0),	(	620.0,	47.0),	(	525.0,	49.0),	(	460.0,	51.0),
(	355.0,	56.0),	(	355.0,	66.0),	(	355.0,	76.0),	(	355.0,	86.0),	(	350.0,	96.0),
(	345.0,	106.0),	(	335.0,	116.0),	(	325.0,	126.0),	(	380.0,	136.0),	(	420.0,	141.0),
(	450.0,	146.0),	(	480.0,	151.0),	(	505.0,	156.0),	(	535.0,	161.0),	(	575.0,	166.0),
(	620.0,	171.0),	(	665.0,	176.0),	(	705.0,	181.0),	(	730.0,	186.0),	(	745.0,	191.0),
(	755.0,	196.0),	(	755.0,	201.0),	(	745.0,	206.0),	(	730.0,	211.0),	(	705.0,	216.0),
(	690.0,	221.0),	(	690.0,	226.0),	(	690.0,	231.0),	(	680.0,	236.0),	(	665.0,	241.0),
(	645.0,	246.0),	(	615.0,	251.0),	(	575.0,	256.0),	(	530.0,	261.0),	(	475.0,	266.0),
(	410.0,	271.0),	(	365.0,	276.0),	(	365.0,	286.0),	(	410.0,	296.0),	(		

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)

1	2	0	6	.10000+000	-13.3	-13.3	.0	10.00	.00	26.60	.00	.00	.00	.00
2	1	0	6	.13000+000	20.0	.0	.0	.90	1.00	4.70	.00	.00	.00	.00
3	1	0	6	.13000+000	30.0	.0	.0	2.60	1.00	4.70	.00	.00	.00	.00
4	1	0	6	.13000+000	40.0	.0	.0	4.30	1.00	4.70	.00	.00	.00	.00
5	1	0	6	.13000+000	49.0	.0	.0	6.10	1.00	4.70	.00	.00	.00	.00
6	1	0	6	.13000+000	59.0	.0	.0	7.80	1.00	4.70	.00	.00	.00	.00
7	1	0	6	.13000+000	69.0	.0	.0	9.60	1.00	4.70	.00	.00	.00	.00
8	1	0	6	.13000+000	79.0	.0	.0	11.30	1.00	4.70	.00	.00	.00	.00
9	1	0	6	.13000+000	89.0	.0	.0	13.00	1.00	4.70	.00	.00	.00	.00
10	1	0	6	.13000+000	99.0	.0	.0	14.80	1.00	4.70	.00	.00	.00	.00
11	1	0	6	.13000+000	109.0	.0	.0	16.50	1.00	4.70	.00	.00	.00	.00
12	1	0	0	.26300+001	121.0	.0	.0	22.50	11.60	10.80	.00	.00	.00	.00
13	1	0	0	.26300+001	144.0	.0	.0	22.50	11.60	10.80	.00	.00	.00	.00
14	1	0	0	.26300+001	167.0	.0	.0	22.50	11.60	10.80	.00	.00	.00	.00
15	1	0	0	.26300+001	190.0	.0	.0	22.50	11.60	10.80	.00	.00	.00	.00
16	0	0	0	.50000+001	201.0	.0	.0	50.00	340.00	8.00	1.00	25.00	90.00	50.00

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER = 1 ***

MASS FRACTION =
.10000, .40000, .28000, .12000, .06000, .04000,

SETTLING VELOCITY(METERS/SEC) =
.0010, .0070, .0190, .0370, .0610, .0990,

SURFACE REFLECTION COEFFICIENT =
1.00000, .82000, .72000, .65000, .59000, .50000,

*** SOURCE NUMBER = 2 ***

MASS FRACTION =
.10000, .40000, .28000, .12000, .06000, .04000,

SETTLING VELOCITY(METERS/SEC) =
.0010, .0070, .0190, .0370, .0610, .0990,

SURFACE REFLECTION COEFFICIENT =
1.00000, .82000, .72000, .65000, .59000, .50000,

*** SOURCE NUMBER = 3 ***

MASS FRACTION =
.10000, .40000, .28000, .12000, .06000, .04000,

SETTLING VELOCITY(METERS/SEC) =
.0010, .0070, .0190, .0370, .0610, .0990,

SURFACE REFLECTION COEFFICIENT =
1.00000, .82000, .72000, .65000, .59000, .50000,

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER = 4 ***

MASS FRACTION =
.10000, .40000, .28000, .12000, .06000, .04000,

SETTLING VELOCITY(METERS/SEC) =
.0010, .0070, .0190, .0370, .0610, .0990,

SURFACE REFLECTION COEFFICIENT =
1.00000, .82000, .72000, .65000, .59000, .50000,

*** SOURCE NUMBER = 5 ***

MASS FRACTION =
.10000, .40000, .28000, .12000, .06000, .04000,

SETTLING VELOCITY(METERS/SEC) =
.0010, .0070, .0190, .0370, .0610, .0990,

SURFACE REFLECTION COEFFICIENT =
1.00000, .82000, .72000, .65000, .59000, .50000,

*** SOURCE NUMBER = 6 ***

MASS FRACTION =
.10000, .40000, .28000, .12000, .06000, .04000,

SETTLING VELOCITY(METERS/SEC) =
.0010, .0070, .0190, .0370, .0610, .0990,

SURFACE REFLECTION COEFFICIENT =
1.00000, .82000, .72000, .65000, .59000, .50000,

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER = 7 ***

MASS FRACTION =
.10000, .40000, .28000, .12000, .06000, .04000,

SETTLING VELOCITY(METERS/SEC) =
.0010, .0070, .0190, .0370, .0610, .0990,

SURFACE REFLECTION COEFFICIENT =
1.00000, .82000, .72000, .65000, .59000, .50000,

*** SOURCE NUMBER = 8 ***

MASS FRACTION =
.10000, .40000, .28000, .12000, .06000, .04000,

SETTLING VELOCITY(METERS/SEC) =
.0010, .0070, .0190, .0370, .0610, .0990,

SURFACE REFLECTION COEFFICIENT =
1.00000, .82000, .72000, .65000, .59000, .50000,

*** SOURCE NUMBER = 9 ***

MASS FRACTION =
.10000, .40000, .28000, .12000, .06000, .04000,

SETTLING VELOCITY(METERS/SEC) =
.0010, .0070, .0190, .0370, .0610, .0990,

SURFACE REFLECTION COEFFICIENT =
1.00000, .82000, .72000, .65000, .59000, .50000,

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER = 10 ***

MASS FRACTION =
.10000, .40000, .28000, .12000, .06000, .04000,

SETTLING VELOCITY(METERS/SEC) =
.0010, .0070, .0190, .0370, .0610, .0990,

SURFACE REFLECTION COEFFICIENT =
1.00000, .82000, .72000, .65000, .59000, .50000,

*** SOURCE NUMBER = 11 ***

MASS FRACTION =
.10000, .40000, .28000, .12000, .06000, .04000,

SETTLING VELOCITY(METERS/SEC) =

.0010, .0070, .0190, .0270, .0610, .0990,

SURFACE REFLECTION COEFFICIENT =
1.00000, .82000, .72000, .65000, .59000, .00000,

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

SOURCE NO.	HOUR 1 SCALAR	HOUR 2 SCALAR	HOUR 3 SCALAR	HOUR 4 SCALAR	HOUR 5 SCALAR	HOUR 6 SCALAR
1	.10000+001	.10000+001	.10000+001	.10000+001	.10000+001	.10000+001
7	.10000+001	.50000+001	.50000+001	.50000+001	.50000+001	.50000+001
13	.50000+001	.50000+001	.50000+001	.10000+001	.10000+001	.10000+001
19	.10000+001	.10000+001	.10000+001	.10000+001	.10000+001	.10000+001

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* SOURCE-RECEPTOR COMBINATIONS LESS THAN 100 METERS OR THREE BUILDING HEIGHTS IN DISTANCE. NO AVERAGE CONCENTRATION IS CALCULATED *

SOURCE NUMBER	- - RECEPTOR LOCATION - - X OR RANGE (METERS)	Y (METERS) OR DIRECTION (DEGREES)	DISTANCE BETWEEN (METERS)
1	.0	.0	-15.01
2	.0	.0	9.99
3	.0	.0	19.99
4	.0	.0	29.99
5	.0	.0	38.99
6	.0	.0	48.99
7	.0	.0	58.99
8	.0	.0	68.99
9	.0	.0	78.99
10	.0	.0	88.99
10	200.0	.0	90.99
11	.0	.0	98.99
11	200.0	.0	80.99
12	.0	.0	97.78
12	200.0	.0	55.78
13	200.0	.0	32.78
14	200.0	.0	9.78
15	200.0	.0	-13.22
16	200.0	.0	1.00

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* METEOROLOGICAL DATA FOR DAY 51 *

HOUR	FLOW VECTOR (DEGREES)	RANDOM FLOW VECTOR (DEGREES)	WIND SPEED (MPS)	MIXING HEIGHT (METERS)	TEMP. (DEG. K)	INPUT STABILITY CATEGORY	ADJUSTED STABILITY CATEGORY
1	120.0	118.0	4.60	1115.0	272.0	4	4
2	120.0	123.0	4.60	1159.0	272.0	4	4
3	120.0	124.0	5.10	1203.0	271.0	4	4
4	130.0	131.0	5.70	1248.0	271.0	4	4
5	110.0	108.0	4.10	1292.0	271.0	4	4
6	120.0	123.0	4.60	1337.0	271.0	4	4
7	120.0	122.0	4.10	1381.0	271.0	4	4
8	120.0	125.0	3.60	1426.0	270.0	4	4
9	120.0	122.0	4.10	1470.0	271.0	4	4
10	140.0	137.0	4.60	1514.0	272.0	4	4
11	120.0	123.0	5.10	1559.0	273.0	4	4
12	140.0	142.0	6.20	1603.0	273.0	4	4
13	100.0	98.0	5.10	1648.0	272.0	4	4
14	110.0	110.0	7.70	1692.0	275.0	4	4
15	130.0	134.0	7.20	1692.0	274.0	4	4
16	110.0	106.0	7.20	1692.0	274.0	4	4
17	120.0	118.0	7.20	1692.0	273.0	4	4
18	110.0	107.0	5.10	1692.0	272.0	4	4
19	110.0	115.0	4.10	1687.0	270.0	5	5
20	110.0	111.0	4.10	1680.0	270.0	5	5
21	120.0	125.0	5.10	1673.0	270.0	4	4
22	120.0	116.0	5.10	1667.0	270.0	5	5
23	100.0	96.0	4.10	1660.0	269.0	5	5
24	100.0	100.0	5.10	1653.0	270.0	4	4

DAILY: 51
24-HR/PD 1
SCROUP# 1

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* ENDING WITH HOUR 24 FOR DAY 51 *
* FROM SOURCES: 1, *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 5854.87634 AND OCCURRED AT (200.0, -200.0) *

Y-AXIS (METERS) /	X-AXIS (METERS) .0	200.0	400.0	600.0	800.0	1000.0	1250.0	1500.0	2000.0
2000.0 /	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
2000.0 /	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
1500.0 /	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
1250.0 /	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
1000.0 /	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
800.0 /	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
600.0 /	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
400.0 /	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00005
200.0 /	.00000	.00000	.00000	.00000	.00003	.00077	.00743	.02735	.10562
.0 /	.00000	1318.17757	437.05058	204.93242	116.57082	74.39063	48.56408	34.08476	19.29146
-200.0 /	.00000	5854.87634	4122.74951	1403.23764	620.24892	482.29285	425.96041	345.10432	196.77785
-400.0 /	.00000	27.91097	2115.46320	3294.38300	1303.31398	724.23763	397.34161	220.73987	154.08979
-600.0 /	.00000	.00284	372.99423	1075.59737	1402.77374	1358.77321	582.39127	376.96333	165.02662
-800.0 /	.00000	.00000	5.38545	468.06199	668.60006	677.13029	1034.89079	518.89317	235.76610
-1000.0 /	.00000	.00000	.03063	51.18791	419.43465	468.98518	463.58274	764.20479	279.78109
-1250.0 /	.00000	.00000	.00005	.84945	70.87973	293.24862	328.12135	268.90992	483.32630
-1500.0 /	.00000	.00000	.00000	.00833	8.97955	76.47860	242.98370	244.71569	313.95149
-2000.0 /	.00000	.00000	.00000	.00000	.00316	.59922	23.44508	106.14838	153.75669
-3000.0 /	.00000	.00000	.00000	.00000	.00000	.00000	.00231	.21379	23.26290

DAILY: 51
24-HR/PD 1
SGROUP# 1

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* ENDING WITH HOUR 24 FOR DAY 51 *
* FROM SOURCES: 1,
* FOR THE DISCRETE RECEPTOR POINTS *

- RNG -	- DIR -	CON.	- RNG -	- DIR -	CON.	- RNG -	- DIR -	CON.
555.0	317.0	.00000	620.0	318.0	.00000	685.0	320.0	.00000
735.0	322.0	.00000	800.0	326.0	.00000	860.0	331.0	.00000
900.0	336.0	.00000	920.0	341.0	.00000	940.0	346.0	.00000
940.0	351.0	.00000	935.0	356.0	.00000	910.0	1.0	.00000
950.0	6.0	.00000	1015.0	11.0	.00000	1055.0	16.0	.00000
1075.0	21.0	.00000	1075.0	26.0	.00000	1045.0	31.0	.00000
995.0	36.0	.00000	910.0	41.0	.00000	855.0	43.0	.00000
755.0	45.0	.00000	620.0	47.0	.00000	525.0	49.0	.00000
460.0	51.0	.00000	355.0	56.0	.00000	355.0	66.0	.00000
355.0	76.0	.00138	355.0	86.0	49.32992	350.0	96.0	2890.56146
345.0	106.0	2891.33838	335.0	116.0	5947.00085	325.0	126.0	9454.70596
380.0	136.0	3962.16638	420.0	141.0	2678.54422	450.0	146.0	917.64479
480.0	151.0	106.37363	505.0	156.0	2.80305	535.0	161.0	.01130
575.0	166.0	.00001	620.0	171.0	.00000	665.0	176.0	.00000
705.0	181.0	.00000	730.0	186.0	.00000	745.0	191.0	.00000
755.0	196.0	.00000	755.0	201.0	.00000	745.0	206.0	.00000
730.0	211.0	.00000	705.0	216.0	.00000	690.0	221.0	.00000
690.0	226.0	.00000	690.0	231.0	.00000	680.0	236.0	.00000
665.0	241.0	.00000	645.0	246.0	.00000	615.0	251.0	.00000
575.0	256.0	.00000	530.0	261.0	.00000	475.0	266.0	.00000
410.0	271.0	.00000	365.0	276.0	.00000	365.0	286.0	.00000
410.0	296.0	.00000						

DAILY: 51
24-HR/PD 1
SGROUP0 2

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* ENDING WITH HOUR 24 FOR DAY 51 *
* FROM SOURCES: 2, -16,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 201.04825 AND OCCURRED AT (400.0, -200.0) *

Y-AXIS (METERS) /	X-AXIS (METERS) .0	200.0	400.0	600.0	800.0	1000.0	1250.0	1500.0	2000.0
3000.0 /	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
2000.0 /	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
1500.0 /	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
1250.0 /	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
1000.0 /	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
800.0 /	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
600.0 /	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
400.0 /	.00000	.00000	.00000	.00000	.00000	.00000	.00007	.00055	.00187
200.0 /	.00000	.00000	.00000	.00000	.00000	.00000	.00007	.00055	.00187
.0 /	.00000	17.66854	40.07971	18.45765	10.43586	6.77951	4.37103	3.04427	1.72151
-200.0 /	.00000	12.28928	201.04825	156.41837	68.66678	39.40954	27.44765	22.52263	14.85213
-400.0 /	.00000	.00842	14.39943	71.55958	124.22330	80.21973	44.77061	27.01264	12.90219
-600.0 /	.00000	.00000	.41255	16.60484	36.35310	75.09170	64.11083	42.63629	20.07324
-800.0 /	.00000	.00000	.00353	1.79899	15.17456	22.97470	49.62868	51.11889	27.50127
-1000.0 /	.00000	.00000	.00002	.08531	3.66399	12.83393	17.43898	35.10716	31.37885
-1250.0 /	.00000	.00000	.00000	.00096	.24492	3.55638	10.23589	12.10572	31.54116
-1500.0 /	.00000	.00000	.00000	.00001	.00837	.44921	4.33938	8.26329	13.38087
-2000.0 /	.00000	.00000	.00000	.00000	.00000	.00164	.15448	1.62548	5.69301
-3000.0 /	.00000	.00000	.00000	.00000	.00000	.00000	.00001	.00110	.32537

DAILY: 51
24-HR/PD 1
SGROUP# 2

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* ENDING WITH HOUR 24 FOR DAY 51 *
* FROM SOURCES: 2, -16,
* FOR THE DISCRETE RECEPTOR POINTS *

- RNG -	- DIR -	CON.	- RNG -	- DIR -	CON.	- RNG -	- DIR -	CON.
555.0	317.0	.00000	620.0	318.0	.00000	685.0	320.0	.00000
735.0	322.0	.00000	800.0	326.0	.00000	860.0	331.0	.00000
900.0	336.0	.00000	920.0	341.0	.00000	940.0	346.0	.00000
940.0	351.0	.00000	935.0	356.0	.00000	910.0	1.0	.00000
950.0	6.0	.00000	1015.0	11.0	.00000	1055.0	16.0	.00000
1075.0	21.0	.00000	1075.0	26.0	.00000	1045.0	31.0	.00000
995.0	36.0	.00000	910.0	41.0	.00000	855.0	43.0	.00000
755.0	45.0	.00000	620.0	47.0	.00000	525.0	49.0	.00000
460.0	51.0	.00000	355.0	56.0	.00000	355.0	66.0	.00000
355.0	76.0	.00050	355.0	86.0	7.20832	350.0	96.0	168.82340
345.0	106.0	349.72003	335.0	116.0	204.11432	325.0	126.0	51.21667
380.0	136.0	9.90051	420.0	141.0	3.13846	450.0	146.0	.56005
480.0	151.0	.04073	505.0	156.0	.00088	535.0	161.0	.00000
575.0	166.0	.00000	620.0	171.0	.00000	665.0	176.0	.00000
705.0	181.0	.00000	730.0	186.0	.00000	745.0	191.0	.00000
755.0	196.0	.00000	755.0	201.0	.00000	745.0	206.0	.00000
730.0	211.0	.00000	705.0	216.0	.00000	690.0	221.0	.00000
690.0	226.0	.00000	690.0	231.0	.00000	680.0	236.0	.00000
665.0	241.0	.00000	645.0	246.0	.00000	615.0	251.0	.00000
575.0	256.0	.00000	530.0	261.0	.00000	475.0	266.0	.00000
410.0	271.0	.00000	365.0	276.0	.00000	365.0	286.0	.00000
410.0	296.0	.00000						

MET. DATA
DAY 187

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* METEOROLOGICAL DATA FOR DAY 187 *

HOUR	FLOW VECTOR (DEGREES)	RANDOM FLOW VECTOR (DEGREES)	WIND SPEED (MPS)	MIXING HEIGHT (METERS)	TEMP. (DEG. K)	INPUT STABILITY CATEGORY	ADJUSTED STABILITY CATEGORY
1	290.0	289.0	1.00	1765.0	286.0	6	6
2	290.0	289.0	1.00	1795.0	285.0	6	6
3	40.0	44.0	1.00	1825.0	285.0	6	6
4	250.0	251.0	1.00	1855.0	287.0	6	6
5	250.0	249.0	1.00	1886.0	287.0	6	6
6	240.0	241.0	1.50	170.0	287.0	6	6
7	220.0	223.0	1.00	418.0	289.0	5	5
8	220.0	222.0	1.00	667.0	291.0	4	4
9	260.0	256.0	1.50	915.0	294.0	3	3
10	130.0	132.0	3.10	1164.0	296.0	2	2
11	130.0	135.0	2.60	1412.0	298.0	1	1
12	140.0	137.0	3.10	1661.0	299.0	2	2
13	130.0	128.0	3.10	1909.0	300.0	2	2
14	230.0	231.0	3.10	2158.0	298.0	2	2
15	80.0	78.0	2.10	2158.0	300.0	2	2
16	180.0	184.0	1.50	2158.0	300.0	2	2
17	110.0	108.0	3.10	2158.0	300.0	3	3
18	110.0	112.0	2.60	2158.0	299.0	3	3
19	90.0	95.0	2.10	2158.0	299.0	4	4
20	90.0	90.0	2.10	2158.0	294.0	4	4
21	90.0	92.0	1.00	2158.0	290.0	5	5
22	90.0	95.0	1.00	2158.0	289.0	6	6
23	90.0	88.0	1.00	2158.0	289.0	6	6
24	20.0	25.0	1.00	2158.0	287.0	6	6

DAILY: 187
24-HR/PD 1
SGROUP# 1

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* ENDING WITH HOUR 24 FOR DAY 187 *
* FROM SOURCES: 1,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 15714.36694 AND OCCURRED AT (200.0, .0) *

Y-AXIS (METERS) /	X-AXIS (METERS) .0	200.0	400.0	600.0	800.0	1000.0	1250.0	1500.0	2000.0
3000.0 /	.00000	.00000	.00000	.00000	.00001	.15453	70.75117	113.35151	.00040
2000.0 /	.00000	.00000	.00000	.01097	79.42562	241.66030	.15362	.09564	196.50612
1500.0 /	.00000	.00000	.00032	145.20730	146.36696	.00733	32.49143	331.55891	.10881
1250.0 /	.00000	.00000	.64092	774.34805	.19549	10.74283	461.65619	1.49429	.93888
1000.0 /	.00000	.00000	332.71552	9.56297	19.31350	689.38187	.46363	1.07610	5.16116
800.0 /	.00000	.00062	1262.80122	2.02148	1016.97839	.96624	2.63741	6.88649	13.90951
600.0 /	.00000	23.29996	.31505	1646.60730	1.71503	8.07893	18.89681	25.73469	25.84968
400.0 /	.00000	3617.55475	3066.28058	12.21784	42.42259	60.85711	61.38733	51.65822	32.21466
200.0 /	.00000	5631.09174	195.80015	256.61403	188.27887	128.45207	86.58232	72.90369	102.07955
.0 /	.00000	15714.36694	8269.17163	4403.80127	2675.39566	1792.05333	1205.76030	866.90350	510.79423
-200.0 /	721.65511	3348.41876	699.47475	254.22783	113.00128	102.19517	219.11773	420.88499	563.93249
-400.0 /	206.60466	206.87201	841.78338	375.46276	160.54252	103.90349	59.49711	33.84347	25.07904
-600.0 /	92.31287	16.35900	205.15495	359.37117	227.60470	110.12630	62.96027	46.91286	22.46648
-800.0 /	51.86349	8.06492	34.62868	145.72445	197.45862	147.57269	73.90220	42.18683	26.90544
-1000.0 /	33.12413	7.79823	6.54464	43.22768	102.60241	124.59242	93.54881	53.63194	33.34051
-1250.0 /	21.14711	7.21078	1.65379	8.75975	32.97825	64.01286	79.70601	65.71939	26.76022
-1500.0 /	14.65438	6.28637	1.29705	1.99781	9.57066	25.81918	47.84246	55.77809	35.16261
-2000.0 /	8.21578	4.55778	1.51387	.44176	.95456	3.49939	10.79118	20.97642	31.78447
-3000.0 /	3.63542	2.51659	1.35598	.56942	.20660	.14817	.44262	1.35592	5.93363

DAILY: 187
24-HR/PD 1
SGROUP# 1

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* ENDING WITH HOUR 24 FOR DAY 187 *
* FROM SOURCES: 1, *
* FOR THE DISCRETE RECEPTOR POINTS *

- RNG -	- DIR -	CON.	- RNG -	- DIR -	CON.	- RNG -	- DIR -	CON.
555.0	317.0	.00000	620.0	318.0	.00000	685.0	320.0	.00000
735.0	322.0	.00000	800.0	326.0	.00000	860.0	331.0	.00000
900.0	336.0	.00000	920.0	341.0	.00000	940.0	346.0	.00000
940.0	351.0	.00000	935.0	356.0	.00000	910.0	1.0	.00000
950.0	6.0	.00000	1015.0	11.0	.00000	1055.0	16.0	.03067
1075.0	21.0	157.27568	1075.0	26.0	1109.31374	1045.0	31.0	12.31420
995.0	36.0	.36752	910.0	41.0	543.06476	855.0	43.0	1626.27251
755.0	45.0	1984.79179	620.0	47.0	1124.50078	525.0	49.0	291.95872
460.0	51.0	41.70988	355.0	56.0	62.53379	355.0	66.0	462.98923
355.0	76.0	985.99432	355.0	86.0	6268.29004	350.0	96.0	8556.66541
345.0	106.0	673.67858	335.0	116.0	1218.17216	325.0	126.0	2245.45532
380.0	136.0	1868.53270	420.0	141.0	1177.45302	450.0	146.0	627.42970
480.0	151.0	266.28470	505.0	156.0	92.62675	535.0	161.0	29.34127
575.0	166.0	20.64646	620.0	171.0	35.65266	665.0	176.0	56.72315
705.0	181.0	69.64384	730.0	186.0	66.90609	745.0	191.0	49.10390
755.0	196.0	26.66709	755.0	201.0	10.76526	745.0	206.0	6.06000
730.0	211.0	83.94417	705.0	216.0	1264.81723	690.0	221.0	4637.79254
690.0	226.0	3157.29440	690.0	231.0	513.62110	680.0	236.0	205.40465
665.0	241.0	1844.44934	645.0	246.0	1880.30986	615.0	251.0	5850.01074
575.0	256.0	1571.24490	530.0	261.0	1104.19591	475.0	266.0	509.50306
410.0	271.0	131.65336	365.0	276.0	15.64097	365.0	286.0	5313.55054
410.0	296.0	105.03809						

DAILY: 187
24-HR/PD 1
SGROUP$ 2

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* ENDING WITH HOUR 24 FOR DAY 187 *
* FROM SOURCES: 2, -16,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 519.55966 AND OCCURRED AT (400.0, .0) *

Y-AXIS (METERS) /	X-AXIS (METERS) .0	200.0	400.0	600.0	800.0	1000.0	1250.0	1500.0	2000.0
3000.0 /	.00000	.00000	.00000	.00000	.00000	.00077	1.41983	25.15705	.05346
2400.0 /	.00000	.00000	.00000	.00002	.43594	26.91816	7.39295	.00283	27.65221
1500.0 /	.00000	.00000	.00000	.45755	40.41136	6.69964	.17865	29.09821	.10919
1250.0 /	.00000	.00000	.00079	12.35027	32.60037	.05650	28.08618	15.79326	.02238
1000.0 /	.00000	.00000	.56907	58.70966	.54425	25.16644	15.13891	.02520	.15325
800.0 /	.00000	.00000	15.96184	23.95126	21.95373	35.41167	.05292	.17198	.46404
600.0 /	.00000	.01019	59.55548	19.57603	37.68348	.13977	.48883	.84562	1.02977
400.0 /	.00000	18.68822	45.57634	38.62564	.76003	1.73966	2.26618	2.12594	1.46648
200.0 /	.00000	60.00865	38.01724	6.60050	7.38972	5.91977	4.79060	5.37791	11.55073
.0 /	22.74876	314.23365	519.55966	334.12697	236.92693	180.62490	136.25446	107.36840	73.54959
-200.0 /	153.99916	34.11057	56.93214	39.37237	24.67287	16.15053	21.88774	39.89606	67.14360
-400.0 /	8.23245	15.20893	12.24035	22.30310	14.32725	13.97579	11.73010	7.55740	4.29455
-600.0 /	7.64314	9.98035	1.78615	8.58119	11.33724	7.70183	6.42720	7.09994	4.77649
-800.0 /	6.40067	6.78404	.95954	2.07399	5.77563	6.75359	4.59230	3.55579	4.32562
-1000.0 /	5.07425	4.82147	1.00804	.50393	2.09958	4.03321	4.33590	3.07938	2.42044
-1250.0 /	3.75608	3.33415	1.02562	.18124	.51843	1.52846	2.77183	2.91416	1.62794
-1500.0 /	2.82491	2.42923	.95711	.18209	.14228	.50854	1.34813	2.02737	1.72414
-2000.0 /	1.71373	1.44447	.75541	.24194	.05774	.06345	.23855	.58436	1.21991
-3000.0 /	.79508	.67498	.45221	.23771	.09778	.03281	.01425	.03279	.17851

DAILY: 187
24-HR/PD 1
SGROUP# 2

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* ENDING WITH HOUR 24 FOR DAY 187 *
* FROM SOURCES: 2, -16,
* FOR THE DISCRETE RECEPTOR POINTS *

- RNG -	- DIR -	CON.	- RNG -	- DIR -	CON.	- RNG -	- DIR -	CON.
555.0	317.0	.00000	620.0	318.0	.00000	685.0	320.0	.00000
735.0	322.0	.00000	800.0	326.0	.00000	860.0	331.0	.00000
900.0	336.0	.00000	920.0	341.0	.00000	940.0	346.0	.00000
940.0	351.0	.00000	935.0	356.0	.00000	910.0	1.0	.00000
950.0	6.0	.00000	1015.0	11.0	.00000	1055.0	16.0	.00003
1075.0	21.0	.22115	1075.0	26.0	13.13018	1045.0	31.0	56.91757
995.0	36.0	36.26925	910.0	41.0	3.65366	855.0	43.0	7.23303
755.0	45.0	19.91476	620.0	47.0	37.50115	525.0	49.0	53.69863
460.0	51.0	64.84546	355.0	56.0	82.60980	355.0	66.0	63.71331
355.0	76.0	23.12033	355.0	86.0	276.87286	350.0	96.0	341.64482
345.0	106.0	111.43501	335.0	116.0	85.52226	325.0	126.0	42.42123
380.0	136.0	15.36773	420.0	141.0	9.51170	450.0	146.0	8.63035
480.0	151.0	10.06764	505.0	156.0	12.68295	535.0	161.0	14.36220
575.0	166.0	14.19687	620.0	171.0	12.46968	665.0	176.0	9.65935
705.0	181.0	6.45538	730.0	186.0	3.62978	745.0	191.0	1.68767
755.0	196.0	.95736	755.0	201.0	4.07388	745.0	206.0	27.30715
730.0	211.0	86.00736	705.0	216.0	103.49706	690.0	221.0	51.17716
690.0	226.0	13.11696	690.0	231.0	20.59446	680.0	236.0	65.18786
665.0	241.0	105.15585	645.0	246.0	197.43785	615.0	251.0	94.95082
575.0	256.0	22.68309	530.0	261.0	14.03882	475.0	266.0	7.29426
410.0	271.0	3.10245	365.0	276.0	1.06684	365.0	286.0	32.47575
410.0	296.0	214.04809						

'H'-DAY
2 DAYS
SGROUP# 1

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* 2-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 1,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 8516.27222 AND OCCURRED AT (200.0, .0) *

Y-AXIS (METERS) /	X-AXIS (METERS) .0	200.0	400.0	600.0	800.0	1000.0	1250.0	1500.0	2000.0
3000.0 /	.00000	.00000	.00000	.00000	.00001	.07726	35.37559	56.67576	.00020
2000.0 /	.00000	.00000	.00000	.00549	39.71281	120.83015	.07681	.04782	98.25306
1500.0 /	.00000	.00000	.00016	72.60365	73.18348	.00367	16.24572	165.77946	.05441
1250.0 /	.00000	.00000	.32046	387.17402	.09774	5.37141	230.82809	.74714	.46944
1000.0 /	.00000	.00000	166.35776	4.78148	9.65675	344.69093	.23182	.53805	2.58058
800.0 /	.00000	.00031	631.40061	1.01074	508.48919	.48312	1.31871	3.44324	6.95476
600.0 /	.00000	11.64998	.15753	823.30365	.85751	4.03946	9.44840	12.86735	12.92494
400.0 /	.00000	1808.77737	1533.14029	6.10892	21.21130	30.42855	30.69367	25.82911	16.10735
200.0 /	.00000	2815.54587	97.90007	128.30702	94.13945	64.22642	43.29488	36.46552	51.09258
.0 /	.00000	8516.27222	4353.11108	2304.36685	1395.98322	933.22198	627.16219	450.49413	265.04264
-200.0 /	360.82755	4601.64746	2411.11209	828.73271	366.62508	292.24400	322.53906	332.99464	380.35516
-400.0 /	103.30233	117.39149	1478.62326	1834.92282	731.92822	414.07053	228.41935	127.29167	89.58441
-600.0 /	46.15644	8.18092	289.07459	717.48425	815.18919	734.44972	322.67576	211.93808	93.74757
-800.0 /	25.93175	4.03246	20.00707	306.89321	433.02934	412.35148	554.39648	280.53999	131.33576
-1000.0 /	16.56206	3.89911	3.28764	47.20780	261.01852	296.78880	278.56577	408.91835	151.56105
-1250.0 /	10.57355	3.60539	.82692	4.80460	51.92899	178.63074	203.91367	167.31465	255.04325
-1500.0 /	7.32719	3.14318	.64853	1.00307	6.77511	51.14889	145.41308	150.24689	174.55704
-2000.0 /	4.10789	2.27889	.75693	.22088	.47886	2.04931	17.11813	63.56240	92.77058
-3000.0 /	1.81771	1.25830	.67799	.28471	.10330	.07409	.22247	.78486	14.56827

'N'-DAY
2 DAYS
SGROUP# 1

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* 2-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 1,
* FOR THE DISCRETE RECEPTOR POINTS *

- RNG -	- DIR -	CON.	- RNG -	- DIR -	CON.	- RNG -	- DIR -	CON.
555.0	317.0	.00000	620.0	318.0	.00000	685.0	320.0	.00000
735.0	322.0	.00000	800.0	326.0	.00000	860.0	331.0	.00000
900.0	336.0	.00000	920.0	341.0	.00000	940.0	346.0	.00000
940.0	351.0	.00000	935.0	356.0	.00000	910.0	1.0	.00000
950.0	6.0	.00000	1015.0	11.0	.00000	1055.0	16.0	.01534
1075.0	21.0	78.63784	1075.0	26.0	554.65687	1045.0	31.0	6.15710
995.0	36.0	.18376	910.0	41.0	271.53238	855.0	43.0	813.13625
755.0	45.0	992.39590	620.0	47.0	562.25039	525.0	49.0	145.97936
460.0	51.0	20.85494	355.0	56.0	31.26689	355.0	66.0	231.49461
355.0	76.0	492.99784	355.0	86.0	3158.81000	350.0	96.0	5724.61328
345.0	106.0	1782.50836	335.0	116.0	3562.58636	325.0	126.0	5850.08252
380.0	136.0	2915.34946	420.0	141.0	1927.99860	450.0	146.0	772.53722
480.0	151.0	186.32916	505.0	156.0	47.71490	535.0	161.0	14.67628
575.0	166.0	10.32323	620.0	171.0	17.82633	665.0	176.0	28.36157
705.0	181.0	34.82192	730.0	186.0	33.45304	745.0	191.0	24.55195
755.0	196.0	13.33355	755.0	201.0	5.38263	745.0	206.0	3.03000
730.0	211.0	41.97208	705.0	216.0	632.40862	690.0	221.0	2318.89627
690.0	226.0	1578.64720	690.0	231.0	256.81055	680.0	236.0	102.70232
665.0	241.0	922.22467	645.0	246.0	940.15493	615.0	251.0	2925.00937
575.0	256.0	785.62245	530.0	261.0	552.09795	475.0	266.0	254.75153
410.0	271.0	65.82668	365.0	276.0	7.82048	365.0	286.0	2656.77527
410.0	296.0	52.51905						

HIGH
24-HR
SGROUP# 1

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM SOURCES: 1,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 15714.36694 AND OCCURRED AT (200.0, .0) *

Y-AXIS (METERS) /	X-AXIS (METERS) .0	200.0	400.0	600.0	800.0
3000.0 /	.00000 (0, 0)	.00000 (187, 1)	.00000 (187, 1)	.00000 (187, 1)	.00001 (187, 1)
2000.0 /	.00000 (0, 0)	.00000 (187, 1)	.00000 (187, 1)	.01097 (187, 1)	79.42562 (187, 1)
1500.0 /	.00000 (187, 1)	.00000 (187, 1)	.00032 (187, 1)	145.20730 (187, 1)	146.36696 (187, 1)
1250.0 /	.00000 (187, 1)	.00000 (187, 1)	.64092 (187, 1)	774.34805 (187, 1)	.19549 (187, 1)
1000.0 /	.00000 (187, 1)	.00000 (187, 1)	332.71552 (187, 1)	9.56297 (187, 1)	19.31350 (187, 1)
800.0 /	.00000 (187, 1)	.00062 (187, 1)	1262.80122 (187, 1)	2.02148 (187, 1)	1016.97839 (187, 1)
600.0 /	.00000 (187, 1)	23.29996 (187, 1)	.31505 (187, 1)	1646.60730 (187, 1)	1.71503 (187, 1)
400.0 /	.00000 (187, 1)	3617.55475 (187, 1)	3066.28058 (187, 1)	12.21784 (187, 1)	42.42259 (187, 1)
200.0 /	.00000 (187, 1)	5631.09174 (187, 1)	195.80015 (187, 1)	256.61403 (187, 1)	188.27887 (187, 1)
.0 /	.00000 (0, 0)	15714.36694 (187, 1)	8269.17163 (187, 1)	4403.80127 (187, 1)	2675.39566 (187, 1)
-200.0 /	721.65511 (187, 1)	5854.87634 (51, 1)	4122.74951 (51, 1)	1403.23764 (51, 1)	620.24892 (51, 1)
-400.0 /	206.60466 (187, 1)	206.87201 (187, 1)	2115.46320 (51, 1)	3294.38300 (51, 1)	1303.31398 (51, 1)
-600.0 /	92.31287 (187, 1)	16.35900 (187, 1)	372.99423 (51, 1)	1075.59737 (51, 1)	1402.77374 (51, 1)
-800.0 /	51.86349 (187, 1)	8.06492 (187, 1)	34.62868 (187, 1)	468.06199 (51, 1)	668.60006 (51, 1)
-1000.0 /	33.12413 (187, 1)	7.79823 (187, 1)	6.54464 (187, 1)	51.18791 (51, 1)	419.43465 (51, 1)
-1250.0 /	21.14711 (187, 1)	7.21078 (187, 1)	1.65379 (187, 1)	8.75975 (187, 1)	70.87973 (51, 1)
-1500.0 /	14.65438 (187, 1)	6.28637 (187, 1)	1.29705 (187, 1)	1.99781 (187, 1)	9.57066 (187, 1)
-2000.0 /	8.21578 (187, 1)	4.55778 (187, 1)	1.51387 (187, 1)	.44176 (187, 1)	.95456 (187, 1)
-3000.0 /	3.63542 (187, 1)	2.51659 (187, 1)	1.35598 (187, 1)	.56942 (187, 1)	.20660 (187, 1)

HIGH
24-HR
SGROUP# 1

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM SOURCES: 1, *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 15714.36694 AND OCCURRED AT (200.0, .0) *

Y-AXIS (METERS) /	X-AXIS (METERS) 1000.0	1250.0	1500.0	2000.0
3000.0 /	.15453 (187, 1)	70.75117 (187, 1)	113.35151 (187, 1)	.00040 (187, 1)
2000.0 /	241.66030 (187, 1)	.15362 (187, 1)	.09564 (187, 1)	196.50612 (187, 1)
1500.0 /	.00733 (187, 1)	32.49143 (187, 1)	331.55891 (187, 1)	.10881 (187, 1)
1250.0 /	10.74283 (187, 1)	461.65619 (187, 1)	1.49429 (187, 1)	.93888 (187, 1)
1000.0 /	689.38187 (187, 1)	.46363 (187, 1)	1.07610 (187, 1)	5.16116 (187, 1)
800.0 /	.96624 (187, 1)	2.63741 (187, 1)	6.88649 (187, 1)	13.90951 (187, 1)
600.0 /	8.07893 (187, 1)	18.89681 (187, 1)	25.73469 (187, 1)	25.84988 (187, 1)
400.0 /	60.85711 (187, 1)	61.38733 (187, 1)	51.65822 (187, 1)	32.21466 (187, 1)
200.0 /	128.45207 (187, 1)	86.58232 (187, 1)	72.90369 (187, 1)	102.07955 (187, 1)
.0 /	1792.05333 (187, 1)	1205.76030 (187, 1)	866.90350 (187, 1)	510.79423 (187, 1)
-200.0 /	482.29285 (51, 1)	425.96041 (51, 1)	420.88499 (187, 1)	563.93249 (187, 1)
-400.0 /	724.23763 (51, 1)	397.34161 (51, 1)	220.73987 (51, 1)	154.08979 (51, 1)
-600.0 /	1358.77321 (51, 1)	582.39127 (51, 1)	376.96333 (51, 1)	165.02868 (51, 1)
-800.0 /	677.13029 (51, 1)	1034.89079 (51, 1)	518.89317 (51, 1)	235.76610 (51, 1)
-1000.0 /	468.98518 (51, 1)	463.58274 (51, 1)	764.20479 (51, 1)	279.78160 (51, 1)
-1250.0 /	293.24862 (51, 1)	328.12135 (51, 1)	268.90992 (51, 1)	483.32630 (51, 1)
-1500.0 /	76.47860 (51, 1)	242.98370 (51, 1)	244.71569 (51, 1)	313.95149 (51, 1)
-2000.0 /	3.49939 (187, 1)	23.44508 (51, 1)	106.14838 (51, 1)	153.75669 (51, 1)
-3000.0 /	.14817 (187, 1)	.44262 (187, 1)	1.35592 (187, 1)	23.20290 (51, 1)

HIGH
24-HR
SGROUP# 1

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM SOURCES: 1, *
* FOR THE DISCRETE RECEPTOR POINTS *

- RNG -	- DIR -	CON.	(DAY,PER.)	- RNG -	- DIR -	CON.	(DAY,PER.)
555.0	317.0	.00000	(0, 0)	620.0	318.0	.00000	(0, 0)
685.0	320.0	.00000	(0, 0)	735.0	322.0	.00000	(0, 0)
800.0	326.0	.00000	(0, 0)	860.0	331.0	.00000	(0, 0)
900.0	336.0	.00000	(0, 0)	920.0	341.0	.00000	(0, 0)
940.0	346.0	.00000	(0, 0)	940.0	351.0	.00000	(0, 0)
935.0	356.0	.00000	(0, 0)	910.0	1.0	.00000	(187, 1)
950.0	6.0	.00000	(187, 1)	1015.0	11.0	.00000	(187, 1)
1055.0	16.0	.03067	(187, 1)	1075.0	21.0	157.27568	(187, 1)
1075.0	26.0	1109.31374	(187, 1)	1045.0	31.0	12.31420	(187, 1)
995.0	36.0	.36752	(187, 1)	910.0	41.0	543.06476	(187, 1)
855.0	43.0	1626.27251	(187, 1)	755.0	45.0	1984.79179	(187, 1)
620.0	47.0	1124.50078	(187, 1)	525.0	49.0	291.95872	(187, 1)
460.0	51.0	41.70988	(187, 1)	355.0	56.0	62.53379	(187, 1)
355.0	66.0	462.98923	(187, 1)	355.0	76.0	985.99432	(187, 1)
355.0	86.0	6268.29004	(187, 1)	350.0	96.0	8558.66541	(187, 1)
345.0	106.0	2891.33838	(51, 1)	335.0	116.0	5947.00085	(51, 1)
325.0	126.0	9454.70996	(51, 1)	380.0	136.0	3962.16638	(51, 1)
420.0	141.0	2678.54422	(51, 1)	450.0	146.0	917.64479	(51, 1)
480.0	151.0	266.28470	(187, 1)	505.0	156.0	92.62675	(187, 1)
535.0	161.0	29.34127	(187, 1)	575.0	166.0	20.64646	(187, 1)
620.0	171.0	35.65266	(187, 1)	665.0	176.0	56.72315	(187, 1)
705.0	181.0	69.64384	(187, 1)	730.0	186.0	66.90609	(187, 1)
745.0	191.0	49.10390	(187, 1)	755.0	196.0	26.66709	(187, 1)
755.0	201.0	10.76526	(187, 1)	745.0	206.0	6.06000	(187, 1)
730.0	211.0	83.94417	(187, 1)	705.0	216.0	1264.81723	(187, 1)
690.0	221.0	4637.79254	(187, 1)	690.0	226.0	3157.29440	(187, 1)
690.0	231.0	513.62110	(187, 1)	680.0	236.0	205.40465	(187, 1)
665.0	241.0	1844.44934	(187, 1)	645.0	246.0	1880.30986	(187, 1)
615.0	251.0	5850.01874	(187, 1)	575.0	256.0	1571.24490	(187, 1)
530.0	261.0	1104.19591	(187, 1)	475.0	266.0	509.50306	(187, 1)
410.0	271.0	131.65336	(187, 1)	365.0	276.0	15.64097	(187, 1)
365.0	286.0	5313.55054	(187, 1)	410.0	296.0	105.03809	(187, 1)

2ND HIGH
24-HR
SGROUP# 1

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM SOURCES: 1, *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 3348.41876 AND OCCURRED AT (200.0, -200.0) *

Y-AXIS (METERS) /	X-AXIS (METERS) .0	200.0	400.0	600.0	800.0
3000.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
2000.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
1500.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
1250.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
1000.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
800.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
600.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
400.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
200.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (51, 1)	.00000 (51, 1)	.00000 (51, 1)
.0 /	.00000 (0, 0)	1318.17757 (51, 1)	437.05058 (51, 1)	204.93242 (51, 1)	.00003 (51, 1)
-200.0 /	.00000 (51, 1)	3348.41876 (187, 1)	699.47475 (187, 1)	254.22788 (187, 1)	116.57062 (51, 1)
-400.0 /	.00000 (51, 1)	27.91097 (51, 1)	841.78338 (187, 1)	375.46276 (187, 1)	113.00128 (187, 1)
-600.0 /	.00000 (51, 1)	.00284 (51, 1)	205.15495 (187, 1)	359.37117 (187, 1)	160.54252 (187, 1)
-800.0 /	.00000 (51, 1)	.00000 (51, 1)	5.38545 (51, 1)	145.72445 (187, 1)	227.60470 (187, 1)
-1000.0 /	.00000 (51, 1)	.00000 (51, 1)	.03063 (51, 1)	43.22768 (187, 1)	197.45862 (187, 1)
-1250.0 /	.00000 (51, 1)	.00000 (51, 1)	.00005 (51, 1)	.84945 (51, 1)	102.60241 (187, 1)
-1500.0 /	.00000 (51, 1)	.00000 (51, 1)	.00000 (51, 1)	.00833 (51, 1)	32.97825 (187, 1)
-2000.0 /	.00000 (51, 1)	.00000 (51, 1)	.00000 (51, 1)	.00000 (51, 1)	3.97955 (51, 1)
-3000.0 /	.00000 (51, 1)	.00000 (51, 1)	.00000 (51, 1)	.00000 (51, 1)	.00316 (51, 1)
				.00000 (51, 1)	.00000 (51, 1)

2ND HIGH
24-HR
SGROUP# 1

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM SOURCES: 1, *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 3348.41876 AND OCCURRED AT (200.0, -200.0) *

Y-AXIS (METERS) /	X-AXIS (METERS) 1000.0	1250.0	1500.0	2000.0
3000.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
2000.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
1500.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
1250.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
1000.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (51, 1)
800.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (51, 1)	.00000 (51, 1)
600.0 /	.00000 (51, 1)	.00000 (51, 1)	.00000 (51, 1)	.00000 (51, 1)
400.0 /	.00000 (51, 1)	.00000 (51, 1)	.00000 (51, 1)	.00000 (51, 1)
200.0 /	.00077 (51, 1)	.00743 (51, 1)	.00000 (51, 1)	.00005 (51, 1)
.0 /	74.39063 (51, 1)	48.56408 (51, 1)	.02735 (51, 1)	.10562 (51, 1)
-200.0 /	102.19517 (187, 1)	219.11773 (187, 1)	34.08476 (51, 1)	19.29146 (51, 1)
-400.0 /	103.90349 (187, 1)	59.49711 (187, 1)	345.10432 (51, 1)	196.77785 (51, 1)
-600.0 /	110.12630 (187, 1)	62.96027 (187, 1)	33.84347 (187, 1)	25.07904 (187, 1)
-800.0 /	147.57269 (187, 1)	73.90220 (187, 1)	46.91286 (187, 1)	22.46648 (187, 1)
-1000.0 /	124.59242 (187, 1)	93.54881 (187, 1)	42.18683 (187, 1)	26.90544 (187, 1)
-1250.0 /	64.01286 (187, 1)	79.70601 (187, 1)	53.63194 (187, 1)	23.34051 (187, 1)
-1500.0 /	25.81918 (187, 1)	47.84246 (187, 1)	65.71939 (187, 1)	26.76022 (187, 1)
-2000.0 /	.59922 (51, 1)	10.79118 (187, 1)	55.77809 (187, 1)	35.16261 (187, 1)
-3000.0 /	.00000 (51, 1)	.00231 (51, 1)	20.97642 (187, 1)	31.78447 (187, 1)
			.21379 (51, 1)	5.93363 (187, 1)

2ND HIGH
24-HR
SGROUP# 1

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM SOURCES: 1,
* FOR THE DISCRETE RECEPTOR POINTS *

- RNG -	- DIR -	CON.	(DAY,PER.)	- RNG -	- DIR -	CON.	(DAY,PER.)
555.0	317.0	.00000	(0, 0)	620.0	318.0	.00000	(0, 0)
685.0	320.0	.00000	(0, 0)	735.0	322.0	.00000	(0, 0)
800.0	326.0	.00000	(0, 0)	860.0	331.0	.00000	(0, 0)
900.0	336.0	.00000	(0, 0)	920.0	341.0	.00000	(0, 0)
940.0	346.0	.00000	(0, 0)	940.0	351.0	.00000	(0, 0)
935.0	356.0	.00000	(0, 0)	910.0	1.0	.00000	(0, 0)
950.0	6.0	.00000	(0, 0)	1015.0	11.0	.00000	(0, 0)
1055.0	16.0	.00000	(0, 0)	1075.0	21.0	.00000	(0, 0)
1075.0	26.0	.00000	(0, 0)	1045.0	31.0	.00000	(0, 0)
995.0	36.0	.00000	(0, 0)	910.0	41.0	.00000	(0, 0)
855.0	43.0	.00000	(0, 0)	755.0	45.0	.00000	(0, 0)
620.0	47.0	.00000	(0, 0)	525.0	49.0	.00000	(0, 0)
460.0	51.0	.00000	(0, 0)	355.0	56.0	.00000	(51, 1)
355.0	66.0	.00000	(51, 1)	355.0	76.0	.00138	(51, 1)
355.0	86.0	49.32992	(51, 1)	350.0	96.0	2890.56146	(51, 1)
345.0	106.0	673.67858	(187, 1)	335.0	116.0	1218.17216	(187, 1)
325.0	126.0	2245.45532	(187, 1)	330.0	136.0	1868.53270	(187, 1)
420.0	141.0	1177.45302	(187, 1)	450.0	146.0	627.42970	(187, 1)
480.0	151.0	106.37363	(51, 1)	505.0	156.0	2.80305	(51, 1)
535.0	161.0	.01130	(51, 1)	575.0	166.0	.00001	(51, 1)
620.0	171.0	.00000	(51, 1)	665.0	176.0	.00000	(51, 1)
705.0	181.0	.00000	(51, 1)	730.0	186.0	.00000	(51, 1)
745.0	191.0	.00000	(0, 0)	755.0	196.0	.00000	(0, 0)
755.0	201.0	.00000	(0, 0)	745.0	206.0	.00000	(0, 0)
730.0	211.0	.00000	(0, 0)	705.0	216.0	.00000	(0, 0)
690.0	221.0	.00000	(0, 0)	690.0	226.0	.00000	(0, 0)
690.0	231.0	.00000	(0, 0)	680.0	236.0	.00000	(0, 0)
665.0	241.0	.00000	(0, 0)	645.0	246.0	.00000	(0, 0)
615.0	251.0	.00000	(0, 0)	575.0	256.0	.00000	(0, 0)
530.0	261.0	.00000	(0, 0)	475.0	266.0	.00000	(0, 0)
410.0	271.0	.00000	(0, 0)	365.0	276.0	.00000	(0, 0)
365.0	286.0	.00000	(0, 0)	410.0	296.0	.00000	(0, 0)

MAX 50
24-HR
SGROUP# 1

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* 50 MAXIMUM 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 1,

RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	15714.36694	1	187	200.0	.0	26	1934.79179	1	187	755.0	45.0
2	9454.70996	1	51	325.0	126.0	27	1880.30986	1	187	645.0	246.0
3	8558.66541	1	187	350.0	96.0	28	1868.53270	1	187	380.0	136.0
4	8269.17163	1	187	400.0	.0	29	1844.44934	1	187	665.0	241.0
5	6268.29004	1	187	355.0	86.0	30	1792.05333	1	187	1000.0	.0
6	5947.00085	1	51	335.0	116.0	31	1646.60730	1	187	600.0	600.0
7	5854.87634	1	51	200.0	-200.0	32	1626.27251	1	187	855.0	43.0
8	5850.01874	1	187	615.0	251.0	33	1571.24490	1	187	575.0	256.0
9	5631.09174	1	187	200.0	200.0	34	1403.23764	1	51	600.0	-200.0
10	5313.55054	1	187	365.0	286.0	35	1402.77374	1	51	800.0	-600.0
11	4637.79254	1	187	690.0	221.0	36	1358.77321	1	51	1000.0	-600.0
12	4403.80127	1	187	600.0	.0	37	1318.17757	1	51	200.0	.0
13	4122.74951	1	51	400.0	-200.0	38	1303.31398	1	51	800.0	-400.0
14	3962.16638	1	51	380.0	136.0	39	1264.81723	1	187	705.0	216.0
15	3617.55475	1	187	200.0	400.0	40	1262.80122	1	187	400.0	800.0
16	3348.41876	1	187	200.0	-200.0	41	1218.17216	1	187	335.0	116.0
17	3294.38300	1	51	600.0	-400.0	42	1205.76030	1	187	1250.0	.0
18	3157.29440	1	187	690.0	226.0	43	1177.45302	1	187	420.0	141.0
19	3066.28058	1	187	400.0	400.0	44	1124.50078	1	187	620.0	47.0
20	2891.33838	1	51	345.0	106.0	45	1109.31374	1	187	1075.0	26.0
21	2890.56146	1	51	350.0	96.0	46	1104.19591	1	187	530.0	261.0
22	2678.54422	1	51	420.0	141.0	47	1075.59737	1	51	600.0	-600.0
23	2675.39566	1	187	800.0	.0	48	1034.89079	1	51	1250.0	-800.0
24	2245.45532	1	187	325.0	126.0	49	1016.97839	1	187	800.0	800.0
25	2115.46320	1	51	400.0	-400.0	50	985.99432	1	187	355.0	76.0

'N'-DAY
2 DAYS
SGROUP# 2

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* 2-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 2, -16,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 279.81967 AND OCCURRED AT (400.0, .0) *

Y-AXIS / (METERS) /	X-AXIS (METERS) .0	200.0	400.0	600.0	800.0	1000.0	1250.0	1500.0	2000.0
3000.0 /	.00000	.00000	.00000	.00000	.00000	.00039	.70992	12.57853	.02673
2000.0 /	.00000	.00000	.00000	.00001	.21797	13.45908	3.69648	.00142	13.82610
1500.0 /	.00000	.00000	.00000	.22877	20.20568	3.34982	.08932	14.54911	.05459
1250.0 /	.00000	.00000	.00040	6.17513	16.30019	.02825	14.04309	7.89663	.01119
1000.0 /	.00000	.00000	.28453	29.35483	.27212	12.58322	7.56945	.01260	.07663
800.0 /	.00000	.00000	7.98092	11.97563	10.97687	17.70584	.02646	.08599	.24202
600.0 /	.00000	.00510	29.77774	9.78802	18.84174	.06989	.24441	.42281	.51489
400.0 /	.00000	9.34411	22.78817	19.31282	.38002	.86983	1.13309	1.06297	.73324
200.0 /	.00000	30.00432	19.00862	3.30025	3.69486	2.95992	2.39557	2.68988	5.77880
.0 /	11.37438	165.95110	279.81967	176.29230	123.68139	93.70220	70.31275	55.20633	37.63555
-200.0 /	76.99958	23.19992	128.99014	97.89531	46.66980	27.78002	24.66768	31.20933	40.95786
-400.0 /	4.11622	7.60867	13.31989	46.93132	69.27525	47.09774	28.25034	17.28501	8.59837
-600.0 /	3.82157	4.99017	1.09935	12.59301	23.84516	41.39675	35.26900	24.86809	12.42486
-800.0 /	3.20034	3.39202	.48153	1.93649	10.47510	14.86414	27.11047	27.33733	15.91344
-1000.0 /	2.53713	2.41073	.50403	.29462	2.88178	8.43356	10.88744	19.09327	16.85964
-1250.0 /	1.87804	1.66708	.51281	.09110	.38167	2.54242	6.50386	7.50993	16.58455
-1500.0 /	1.41246	1.21461	.47856	.09105	.07533	.47888	2.84401	5.14533	7.55250
-2000.0 /	.85686	.72223	.37770	.12097	.02887	.03255	.19652	1.10492	3.45646
-3000.0 /	.39754	.33749	.22610	.11885	.04889	.01640	.00713	.01694	.25194

'N'-DAY
2 DAYS
SGROUP# 2

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* 2-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 2. -16.
* FOR THE DISCRETE RECEPTOR POINTS *

- RNG -	- DIR -	CON.	- RNG -	- DIR -	CON.	- RNG -	- DIR -	CON.
555.0	317.0	.00000	620.0	318.0	.00000	685.0	320.0	.00000
735.0	322.0	.00000	800.0	326.0	.00000	860.0	331.0	.00000
900.0	336.0	.00000	920.0	341.0	.00000	940.0	346.0	.00000
940.0	351.0	.00000	935.0	356.0	.00000	910.0	1.0	.00000
950.0	6.0	.00000	1015.0	11.0	.00000	1055.0	16.0	.00001
1075.0	21.0	.11058	1075.0	26.0	6.56509	1045.0	31.0	28.45879
995.0	36.0	18.13462	910.0	41.0	1.82683	855.0	43.0	3.61652
755.0	45.0	9.95738	620.0	47.0	18.75057	525.0	49.0	26.84932
460.0	51.0	32.42273	355.0	56.0	41.30490	355.0	66.0	31.85665
355.0	76.0	11.56041	355.0	86.0	142.04059	350.0	96.0	255.23402
345.0	106.0	230.57737	335.0	116.0	144.81824	325.0	126.0	46.81893
380.0	136.0	12.63412	420.0	141.0	6.32508	450.0	146.0	4.59520
480.0	151.0	5.05418	505.0	156.0	6.34192	535.0	161.0	7.18110
575.0	166.0	7.09843	620.0	171.0	6.23484	665.0	176.0	4.82968
705.0	181.0	3.22769	730.0	186.0	1.81489	745.0	191.0	.84383
755.0	196.0	.47868	755.0	201.0	2.03694	745.0	206.0	13.65357
730.0	211.0	43.00368	705.0	216.0	51.74853	690.0	221.0	25.58858
690.0	226.0	6.55848	690.0	231.0	10.29723	680.0	236.0	32.59393
665.0	241.0	52.57792	645.0	246.0	98.71892	615.0	251.0	47.47541
575.0	256.0	11.34155	530.0	261.0	7.01941	475.0	266.0	3.64713
410.0	271.0	1.55123	365.0	276.0	.53342	365.0	286.0	16.23787
410.0	296.0	107.02404						

HIGH
24-HR
SGROUP# 2

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM SOURCES: 2, -16,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 519.55966 AND OCCURRED AT (400.0, .0) *

Y-AXIS (METERS) /	X-AXIS (METERS) .0	200.0	400.0	600.0	800.0
3000.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (187, 1)	.00000 (187, 1)
2000.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (187, 1)	.00002 (187, 1)	.43594 (187, 1)
1500.0 /	.00000 (0, 0)	.00000 (187, 1)	.00000 (187, 1)	.45755 (187, 1)	40.41136 (187, 1)
1250.0 /	.00000 (0, 0)	.00000 (187, 1)	.00079 (187, 1)	12.35027 (187, 1)	32.60037 (187, 1)
1000.0 /	.00000 (0, 0)	.00000 (187, 1)	.56907 (187, 1)	58.70966 (187, 1)	.54425 (187, 1)
800.0 /	.00000 (0, 0)	.00000 (187, 1)	15.96184 (187, 1)	23.95126 (187, 1)	21.95373 (187, 1)
600.0 /	.00000 (0, 0)	.01019 (187, 1)	59.55548 (187, 1)	19.57603 (187, 1)	37.68348 (187, 1)
400.0 /	.00000 (0, 0)	18.68822 (187, 1)	45.57634 (187, 1)	38.62564 (187, 1)	.76003 (187, 1)
200.0 /	.00000 (187, 1)	60.00865 (187, 1)	38.01724 (187, 1)	6.60050 (187, 1)	7.38972 (187, 1)
.0 /	22.74876 (187, 1)	314.23365 (187, 1)	519.55966 (187, 1)	334.12697 (187, 1)	236.92693 (187, 1)
-200.0 /	153.99916 (187, 1)	34.11057 (187, 1)	201.04825 (51, 1)	156.41837 (51, 1)	68.66678 (51, 1)
-400.0 /	8.23245 (187, 1)	15.20893 (187, 1)	14.39943 (51, 1)	71.55958 (51, 1)	124.22330 (51, 1)
-600.0 /	7.64314 (187, 1)	9.98035 (187, 1)	1.78615 (187, 1)	16.60484 (51, 1)	36.35310 (51, 1)
-800.0 /	6.40067 (187, 1)	6.78404 (187, 1)	.95954 (187, 1)	2.07399 (187, 1)	15.17456 (51, 1)
-1000.0 /	5.07425 (187, 1)	4.82147 (187, 1)	1.00804 (187, 1)	.50393 (187, 1)	3.66399 (51, 1)
-1250.0 /	3.75608 (187, 1)	3.33415 (187, 1)	1.02562 (187, 1)	.18124 (187, 1)	.51843 (187, 1)
-1500.0 /	2.82491 (187, 1)	2.42923 (187, 1)	.95711 (187, 1)	.18209 (187, 1)	.14228 (187, 1)
-2000.0 /	1.71373 (187, 1)	1.44447 (187, 1)	.75541 (187, 1)	.24194 (187, 1)	.05774 (187, 1)
-3000.0 /	.79508 (187, 1)	.67498 (187, 1)	.45221 (187, 1)	.23771 (187, 1)	.09778 (187, 1)

HIGH
24-HR
SGROUP# 2

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM SOURCES: 2, -16,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 519.55966 AND OCCURRED AT (400.0, .0) *

Y-AXIS (METERS) /	X-AXIS (METERS) 1000.0	1250.0	1500.0	2000.0
3000.0 /	.00077 (187, 1)	1.41983 (187, 1)	25.15705 (187, 1)	.05346 (187, 1)
2000.0 /	26.91816 (187, 1)	7.39295 (187, 1)	.00283 (187, 1)	27.65221 (187, 1)
1500.0 /	6.69964 (187, 1)	.17865 (187, 1)	29.09821 (187, 1)	.10919 (187, 1)
1250.0 /	.05650 (187, 1)	28.08618 (187, 1)	15.79326 (187, 1)	.02238 (187, 1)
1000.0 /	25.16644 (187, 1)	15.13891 (187, 1)	.02520 (187, 1)	.15325 (187, 1)
800.0 /	35.41167 (187, 1)	.05292 (187, 1)	.17198 (187, 1)	.48404 (187, 1)
600.0 /	.13977 (187, 1)	.48883 (187, 1)	.84562 (187, 1)	1.02977 (187, 1)
400.0 /	1.73966 (187, 1)	2.26618 (187, 1)	2.12594 (187, 1)	1.46648 (187, 1)
200.0 /	5.91977 (187, 1)	4.79060 (187, 1)	5.37791 (187, 1)	11.55073 (187, 1)
.0 /	180.62490 (187, 1)	136.25446 (187, 1)	107.36840 (187, 1)	73.54959 (187, 1)
-200.0 /	39.40954 (51, 1)	27.44765 (51, 1)	39.89606 (187, 1)	67.14360 (187, 1)
-400.0 /	80.21973 (51, 1)	44.77061 (51, 1)	27.01264 (51, 1)	12.90219 (51, 1)
-600.0 /	75.09170 (51, 1)	64.11083 (51, 1)	42.63629 (51, 1)	20.07324 (51, 1)
-800.0 /	22.97470 (51, 1)	49.62868 (51, 1)	51.11889 (51, 1)	27.50127 (51, 1)
-1000.0 /	12.83393 (51, 1)	17.43898 (51, 1)	35.10716 (51, 1)	31.37885 (51, 1)
-1250.0 /	3.55638 (51, 1)	10.23589 (51, 1)	12.10572 (51, 1)	31.54116 (51, 1)
-1500.0 /	.50854 (187, 1)	4.33988 (51, 1)	8.26329 (51, 1)	13.38087 (51, 1)
-2000.0 /	.06345 (187, 1)	.23855 (187, 1)	1.62548 (51, 1)	5.69301 (51, 1)
-3000.0 /	.03281 (187, 1)	.01425 (187, 1)	.03279 (187, 1)	.32537 (51, 1)

HIGH
24-HR
SGROUP$ 2

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM SOURCES: 2, -16,
* FOR THE DISCRETE RECEPTOR POINTS *

- RNG -	- DIR -	CON.	(DAY,PER.)	- RNG -	- DIR -	CON.	(DAY,PER.)
555.0	317.0	.00000	(187, 1)	620.0	318.0	.00000	(187, 1)
685.0	320.0	.00000	(187, 1)	735.0	322.0	.00000	(187, 1)
800.0	326.0	.00000	(0, 0)	860.0	331.0	.00000	(0, 0)
900.0	336.0	.00000	(0, 0)	920.0	341.0	.00000	(0, 0)
940.0	346.0	.00000	(0, 0)	940.0	351.0	.00000	(0, 0)
935.0	356.0	.00000	(0, 0)	910.0	1.0	.00000	(0, 0)
950.0	6.0	.00000	(187, 1)	1015.0	11.0	.00000	(187, 1)
1055.0	16.0	.00003	(187, 1)	1075.0	21.0	.22115	(187, 1)
1075.0	26.0	13.13018	(187, 1)	1045.0	31.0	56.91757	(187, 1)
995.0	36.0	36.26925	(187, 1)	910.0	41.0	3.65366	(187, 1)
855.0	43.0	7.23303	(187, 1)	755.0	45.0	19.91476	(187, 1)
620.0	47.0	37.50115	(187, 1)	525.0	49.0	53.69863	(187, 1)
460.0	51.0	64.84546	(187, 1)	355.0	56.0	82.60980	(187, 1)
355.0	66.0	63.71331	(187, 1)	355.0	76.0	23.12033	(187, 1)
355.0	86.0	276.87286	(187, 1)	350.0	96.0	341.64482	(187, 1)
345.0	106.0	349.72003	(51, 1)	335.0	116.0	204.11432	(51, 1)
325.0	126.0	51.21667	(51, 1)	380.0	136.0	15.36773	(187, 1)
420.0	141.0	9.51170	(187, 1)	450.0	146.0	8.63035	(187, 1)
480.0	151.0	10.06764	(187, 1)	505.0	156.0	12.68295	(187, 1)
535.0	161.0	14.36220	(187, 1)	575.0	166.0	14.19687	(187, 1)
620.0	171.0	12.46968	(187, 1)	665.0	176.0	9.65935	(187, 1)
705.0	181.0	6.45538	(187, 1)	730.0	186.0	3.62978	(187, 1)
745.0	191.0	1.68767	(187, 1)	755.0	196.0	.95736	(187, 1)
755.0	201.0	4.07388	(187, 1)	745.0	206.0	27.30715	(187, 1)
730.0	211.0	86.00736	(187, 1)	705.0	216.0	103.49706	(187, 1)
690.0	221.0	51.17716	(187, 1)	690.0	226.0	13.11696	(187, 1)
690.0	231.0	20.59446	(187, 1)	680.0	236.0	65.18786	(187, 1)
665.0	241.0	105.15585	(187, 1)	645.0	246.0	197.43785	(187, 1)
615.0	251.0	94.95082	(187, 1)	575.0	256.0	22.68309	(187, 1)
530.0	261.0	14.03882	(187, 1)	475.0	266.0	7.29426	(187, 1)
410.0	271.0	3.10245	(187, 1)	365.0	276.0	1.06684	(187, 1)
365.0	286.0	32.47575	(187, 1)	410.0	296.0	214.04809	(187, 1)

2ND HIGH
24-HR
SGROUP# 2

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM SOURCES: 2, -16,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 56.93214 AND OCCURRED AT (400.0, -200.0) *

Y-AXIS (METERS) /	X-AXIS (METERS) .0	200.0	400.0	600.0	800.0
3000.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
2000.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
1500.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
1250.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
1000.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
800.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
600.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
400.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (51, 1)
200.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (51, 1)	.00000 (51, 1)	.00000 (51, 1)
.0 /	.00000 (0, 0)	17.66854 (51, 1)	40.07971 (51, 1)	18.45765 (51, 1)	10.43586 (51, 1)
-200.0 /	.00000 (51, 1)	12.28928 (51, 1)	56.93214 (187, 1)	39.37237 (187, 1)	24.67287 (187, 1)
-400.0 /	.00000 (51, 1)	.00842 (51, 1)	12.24035 (187, 1)	22.30310 (187, 1)	14.32725 (187, 1)
-600.0 /	.00000 (0, 0)	.00000 (51, 1)	.41255 (51, 1)	8.58119 (187, 1)	11.33724 (187, 1)
-800.0 /	.00000 (0, 0)	.00000 (51, 1)	.00353 (51, 1)	1.79899 (51, 1)	5.77563 (187, 1)
-1000.0 /	.00000 (0, 0)	.00000 (51, 1)	.00002 (51, 1)	.08531 (51, 1)	2.09958 (187, 1)
-1250.0 /	.00000 (0, 0)	.00000 (51, 1)	.00000 (51, 1)	.00096 (51, 1)	.24492 (51, 1)
-1500.0 /	.00000 (0, 0)	.00000 (51, 1)	.00000 (51, 1)	.00001 (51, 1)	.00837 (51, 1)
-2000.0 /	.00000 (0, 0)	.00000 (51, 1)	.00000 (51, 1)	.00000 (51, 1)	.00000 (51, 1)
-3000.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (51, 1)	.00000 (51, 1)	.00000 (51, 1)

2ND HIGH
24-HR
SGROUP$ 2

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM SOURCES: 2, -16,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 56.93214 AND OCCURRED AT (400.0, -200.0) *

Y-AXIS (METERS) /	X-AXIS (METERS) 1000.0	1250.0	1500.0	2000.0
3000.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
2000.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
1500.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
1250.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
1000.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)
800.0 /	.00000 (0, 0)	.00000 (0, 0)	.00000 (0, 0)	.00000 (51, 1)
600.0 /	.00000 (0, 0)	.00000 (51, 1)	.00000 (51, 1)	.00000 (51, 1)
400.0 /	.00000 (51, 1)	.00000 (51, 1)	.00000 (51, 1)	.00000 (51, 1)
200.0 /	.00007 (51, 1)	.00055 (51, 1)	.00185 (51, 1)	.00687 (51, 1)
.0 /	6.77951 (51, 1)	4.37103 (51, 1)	3.04427 (51, 1)	1.72151 (51, 1)
-200.0 /	16.15053 (187, 1)	21.88774 (187, 1)	22.52263 (51, 1)	14.85213 (51, 1)
-400.0 /	13.97579 (187, 1)	11.73010 (187, 1)	7.55740 (187, 1)	4.29455 (187, 1)
-600.0 /	7.70183 (187, 1)	6.42720 (187, 1)	7.09994 (187, 1)	4.77649 (187, 1)
-800.0 /	6.75359 (187, 1)	4.59230 (187, 1)	3.55579 (187, 1)	4.32562 (187, 1)
-1000.0 /	4.03321 (187, 1)	4.33590 (187, 1)	3.07938 (187, 1)	2.42044 (187, 1)
-1250.0 /	1.52846 (187, 1)	2.77183 (187, 1)	2.91416 (187, 1)	1.62794 (187, 1)
-1500.0 /	.44921 (51, 1)	1.34813 (187, 1)	2.02737 (187, 1)	1.72414 (187, 1)
-2000.0 /	.00164 (51, 1)	.15448 (51, 1)	.58436 (187, 1)	1.21991 (187, 1)
-3000.0 /	.00000 (51, 1)	.00001 (51, 1)	.00110 (51, 1)	.17851 (187, 1)

2ND HIGH
24-HR
SGROUP# 2.

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM SOURCES: 2, -16,
* FOR THE DISCRETE RECEPTOR POINTS *

- RNG -	- DIR -	CON.	(DAY,PER.)	- RNG -	- DIR -	CON.	(DAY,PER.)
555.0	317.0	.00000	(0, 0)	620.0	318.0	.00000	(0, 0)
685.0	320.0	.00000	(0, 0)	735.0	322.0	.00000	(0, 0)
800.0	326.0	.00000	(0, 0)	860.0	331.0	.00000	(0, 0)
900.0	336.0	.00000	(0, 0)	920.0	341.0	.00000	(0, 0)
940.0	346.0	.00000	(0, 0)	940.0	351.0	.00000	(0, 0)
935.0	356.0	.00000	(0, 0)	910.0	1.0	.00000	(0, 0)
950.0	6.0	.00000	(0, 0)	1015.0	11.0	.00000	(0, 0)
1055.0	16.0	.00000	(0, 0)	1075.0	21.0	.00000	(0, 0)
1075.0	26.0	.00000	(0, 0)	1045.0	31.0	.00000	(0, 0)
995.0	36.0	.00000	(0, 0)	910.0	41.0	.00000	(0, 0)
855.0	43.0	.00000	(0, 0)	755.0	45.0	.00000	(0, 0)
620.0	47.0	.00000	(0, 0)	525.0	49.0	.00000	(0, 0)
460.0	51.0	.00000	(0, 0)	355.0	56.0	.00000	(0, 0)
355.0	66.0	.00000	(51, 1)	355.0	76.0	.00050	(51, 1)
355.0	86.0	7.20832	(51, 1)	350.0	96.0	168.82340	(51, 1)
345.0	106.0	111.43501	(187, 1)	335.0	116.0	85.52226	(187, 1)
325.0	126.0	42.42123	(187, 1)	380.0	136.0	9.90051	(51, 1)
420.0	141.0	3.13846	(51, 1)	450.0	146.0	.56005	(51, 1)
480.0	151.0	.04073	(51, 1)	505.0	156.0	.00088	(51, 1)
535.0	161.0	.00000	(51, 1)	575.0	166.0	.00000	(51, 1)
620.0	171.0	.00000	(51, 1)	665.0	176.0	.00000	(51, 1)
705.0	181.0	.00000	(0, 0)	730.0	186.0	.00000	(0, 0)
745.0	191.0	.00000	(0, 0)	755.0	196.0	.00000	(0, 0)
755.0	201.0	.00000	(0, 0)	745.0	206.0	.00000	(0, 0)
730.0	211.0	.00000	(0, 0)	705.0	216.0	.00000	(0, 0)
690.0	221.0	.00000	(0, 0)	690.0	226.0	.00000	(0, 0)
690.0	231.0	.00000	(0, 0)	680.0	236.0	.00000	(0, 0)
665.0	241.0	.00000	(0, 0)	645.0	246.0	.00000	(0, 0)
615.0	251.0	.00000	(0, 0)	575.0	256.0	.00000	(0, 0)
530.0	261.0	.00000	(0, 0)	475.0	266.0	.00000	(0, 0)
410.0	271.0	.00000	(0, 0)	365.0	276.0	.00000	(0, 0)
365.0	286.0	.00000	(0, 0)	410.0	296.0	.00000	(0, 0)

MAX 50
24-HR
SGROUP# 2

*** -- HYPOTHETICAL POTASH PROCESSING PLANT - CONCENTRATION -- ***

* 50 MAXIMUM 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 2, -16,

RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	519.55966	1	187	400.0	.0	26	80.21973	1	51	1000.0	-400.0
2	349.72003	1	51	345.0	106.0	27	75.09170	1	51	1000.0	-600.0
3	341.64482	1	187	350.0	96.0	28	73.54959	1	187	2000.0	.0
4	334.12697	1	187	600.0	.0	29	71.55958	1	51	600.0	-400.0
5	314.23365	1	187	200.0	.0	30	68.66678	1	51	800.0	-200.0
6	276.87286	1	187	355.0	86.0	31	67.14360	1	187	2000.0	-200.0
7	236.92693	1	187	800.0	.0	32	65.18786	1	187	680.0	236.0
8	214.04809	1	187	410.0	296.0	33	64.84546	1	187	460.0	51.0
9	204.11432	1	51	335.0	116.0	34	64.11083	1	51	1250.0	-600.0
10	201.04825	1	51	400.0	-200.0	35	63.71331	1	187	355.0	66.0
11	197.43785	1	187	645.0	246.0	36	60.00865	1	187	200.0	200.0
12	180.62490	1	187	1000.0	.0	37	59.55548	1	187	400.0	600.0
13	168.82340	1	51	350.0	96.0	38	58.70966	1	187	600.0	1000.0
14	156.41837	1	51	600.0	-200.0	39	56.93214	1	187	400.0	-200.0
15	153.99916	1	187	.0	-200.0	40	56.91757	1	187	1045.0	31.0
16	136.25446	1	187	1250.0	.0	41	53.69863	1	187	525.0	49.0
17	124.22330	1	51	800.0	-400.0	42	51.21667	1	51	325.0	126.0
18	111.43501	1	187	345.0	106.0	43	51.17716	1	187	690.0	221.0
19	107.36840	1	187	1500.0	.0	44	51.11889	1	51	1500.0	-800.0
20	105.15585	1	187	665.0	241.0	45	49.62868	1	51	1250.0	-800.0
21	103.49706	1	187	705.0	216.0	46	45.57634	1	187	400.0	400.0
22	94.95082	1	187	615.0	251.0	47	44.77061	1	51	1250.0	-400.0
23	86.00736	1	187	730.0	211.0	48	42.63629	1	51	1500.0	-600.0
24	85.52226	1	187	335.0	116.0	49	42.42123	1	187	325.0	126.0
25	82.60980	1	187	355.0	56.0	50	40.41136	1	187	800.0	1500.0

$FREE 9.

$XQT U.ABS7

CDM (VERSION 80247)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 2. GUIDELINE MODELS (1978)
IN UNAMAP (VERSION 4) DEC 80
SOURCE: FILE 7 ON UNAMAP MAGNETIC TAPE FROM NTIS.

THE CENTRAL WIND SPEEDS OF THE SIX WIND SPEED CLASSES (U):

.150000+001	.245872+001	.447040+001	.692912+001	.961136+001	.125171+002

THE EXPONENTIAL OF THE VERTICAL WIND PROFILE BY STABILITY CLASS (UE):

.100000+000	.150000+000	.200000+000	.250000+000	.250000+000	.300000+000

THE INITIAL SIGMA Z FOR AREA SOURCES BY STABILITY CLASS (SZA):

.300000+002	.300000+002	.300000+002	.300000+002	.300000+002	.300000+002

THE CLIMATOLOGICAL MEAN NOCTURNAL AND AFTERNOON MIXING HEIGHTS (HMIN,HT):

.150000+003	.800000+003

THE DAY AND NIGHT EMISSION WEIGHT FACTORS (YD,YN):

.100000+001	.100000+001

THE X-MIN AND Y-MIN OF THE AREA EMISSION INVENTORY GRID (XG,YG):

.500000+001	.500000+001

THE WIDTH OF A BASIC AREA SOURCE SQUARE (TXX):

.500000+004

THE NUMBER OF SUB-SECTORS CONSIDERED IN A 22.5 DEGREE SECTOR, AND ANGULAR WIDTH OF A SUB-SECTOR (DINT,THETA):

.400000+001	.562500+001

THE INITIAL RADIAL INCREMENT (DELR):

.250000+003

THE RADIAL INCREMENT FACTORS (INC):

1	2	4	4

THE RATIO OF EMISSION GRID TO MAP GRID (RAT):

.500000+001

THE GRID CONVERSION FACTOR (CV):

.100000+004

THE AMBIENT AIR TEMPERATURE (TOA):

.274410+003

THE DECAY RATE HALF LIFE FOR P 1 AND P 2 (GB):

.300000+001	.999999+006

THE SIGMA Z COEFFICIENT TABLE (G):

.253900-003	.253900-003	.383000-001	.208860+001	.208860+001	.128120+001
.493600-001	.493600-001	.139300+000	.111370+001	.111370+001	.946700+000
.115400+000	.101400+000	.112000+000	.910900+000	.926000+000	.910000+000
.736800+000	.259100+000	.856000-001	.564200+000	.686900+000	.865000+000
.129690+001	.252700+000	.818000-001	.442100+000	.634100+000	.815500+000

CDM VERSION 80247, RUN 99999

SECTOR	U1	U2	U3	U4	U5	U6
			THE JOINT FREQUENCY FUNCTION FOR STABILITY CLASS 1			
1	.000000	.000000	.000000	.000000	.000000	.000000
2	.000000	.000000	.000000	.000000	.000000	.000000
3	.000000	.000000	.000000	.000000	.000000	.000000
4	.000000	.000000	.000000	.000000	.000000	.000000
5	.000000	.000000	.000000	.000000	.000000	.000000
6	.000000	.000000	.000000	.000000	.000000	.000000
7	.000000	.000000	.000000	.000000	.000000	.000000
8	.000000	.000000	.000000	.000000	.000000	.000000
9	.000000	.000000	.000000	.000000	.000000	.000000
10	.000000	.000000	.000000	.000000	.000000	.000000
11	.000000	.000000	.000000	.000000	.000000	.000000
12	.000000	.000000	.000000	.000000	.000000	.000000
13	.000000	.000000	.000000	.000000	.000000	.000000
14	.000000	.000000	.000000	.000000	.000000	.000000
15	.000000	.000000	.000000	.000000	.000000	.000000
16	.000000	.000000	.000000	.000000	.000000	.000000
			THE JOINT FREQUENCY FUNCTION FOR STABILITY CLASS 2			
1	.000000	.000000	.000000	.000000	.000000	.000000
2	.000000	.000000	.000000	.000000	.000000	.000000
3	.000000	.000000	.000000	.000000	.000000	.000000
4	.000000	.000000	.000000	.000000	.000000	.000000
5	.000000	.000000	.000000	.000000	.000000	.000000
6	.000000	.000000	.000000	.000000	.000000	.000000
7	.000000	.000000	.000000	.000000	.000000	.000000
8	.000000	.000000	.000000	.000000	.000000	.000000
9	.000000	.000000	.000000	.000000	.000000	.000000
10	.000000	.000000	.000000	.000000	.000000	.000000
11	.000000	.000000	.000000	.000000	.000000	.000000
12	.000000	.000000	.000000	.000000	.000000	.000000
13	.000000	.000000	.000000	.000000	.000000	.000000
14	.000000	.000000	.000000	.000000	.000000	.000000
15	.000000	.000000	.000000	.000000	.000000	.000000
16	.000000	.000000	.000000	.000000	.000000	.000000

CDM VERSION 80247. RUN 99999

SECTOR	U1	U2	U3	U4	U5	U6
			THE JOINT FREQUENCY FUNCTION FOR STABILITY CLASS 3			
1	.000000	.000000	.000000	.000000	.000000	.000000
2	.000000	.000000	.000000	.000000	.000000	.000000
3	.000000	.000000	.000000	.000000	.000000	.000000
4	.000000	.000000	.000000	.000000	.000000	.000000
5	.000000	.000000	.000000	.000000	.000000	.000000
6	.000000	.000000	.000000	.000000	.000000	.000000
7	.000000	.000000	.000000	.000000	.000000	.000000
8	.000000	.000000	.000000	.000000	.000000	.000000
9	.000000	.000000	.000000	.000000	.000000	.000000
10	.000000	.000000	.000000	.000000	.000000	.000000
11	.000000	.000000	.000000	.000000	.000000	.000000
12	.000000	.000000	.000000	.000000	.000000	.000000
13	.000000	.000000	.000000	.000000	.000000	.000000
14	.000000	.000000	.000000	.000000	.000000	.000000
15	.000000	.000000	.000000	.000000	.000000	.000000
16	.000000	.000000	.000000	.000000	.000000	.000000
			THE JOINT FREQUENCY FUNCTION FOR STABILITY CLASS 4			
1	.625000-001	.000000	.000000	.000000	.000000	.000000
2	.625000-001	.000000	.000000	.000000	.000000	.000000
3	.625000-001	.000000	.000000	.000000	.000000	.000000
4	.625000-001	.000000	.000000	.000000	.000000	.000000
5	.625000-001	.000000	.000000	.000000	.000000	.000000
6	.625000-001	.000000	.000000	.000000	.000000	.000000
7	.625000-001	.000000	.000000	.000000	.000000	.000000
8	.625000-001	.000000	.000000	.000000	.000000	.000000
9	.625000-001	.000000	.000000	.000000	.000000	.000000
10	.625000-001	.000000	.000000	.000000	.000000	.000000
11	.625000-001	.000000	.000000	.000000	.000000	.000000
12	.625000-001	.000000	.000000	.000000	.000000	.000000
13	.625000-001	.000000	.000000	.000000	.000000	.000000
14	.625000-001	.000000	.000000	.000000	.000000	.000000
15	.625000-001	.000000	.000000	.000000	.000000	.000000
16	.625000-001	.000000	.000000	.000000	.000000	.000000

CDM VERSION 80247. RUN 99999

SECTOR	U1	U2	U3	U4	U5	U6
			THE JOINT FREQUENCY FUNCTION FOR STABILITY CLASS 5			
1	.000000	.000000	.000000	.000000	.000000	.000000
2	.000000	.000000	.000000	.000000	.000000	.000000
3	.000000	.000000	.000000	.000000	.000000	.000000
4	.000000	.000000	.000000	.000000	.000000	.000000
5	.000000	.000000	.000000	.000000	.000000	.000000
6	.000000	.000000	.000000	.000000	.000000	.000000
7	.000000	.000000	.000000	.000000	.000000	.000000
8	.000000	.000000	.000000	.000000	.000000	.000000
9	.000000	.000000	.000000	.000000	.000000	.000000
10	.000000	.000000	.000000	.000000	.000000	.000000
11	.000000	.000000	.000000	.000000	.000000	.000000
12	.000000	.000000	.000000	.000000	.000000	.000000
13	.000000	.000000	.000000	.000000	.000000	.000000
14	.000000	.000000	.000000	.000000	.000000	.000000
15	.000000	.000000	.000000	.000000	.000000	.000000
16	.000000	.000000	.000000	.000000	.000000	.000000
			THE JOINT FREQUENCY FUNCTION FOR STABILITY CLASS 6			
1	.000000	.000000	.000000	.000000	.000000	.000000
2	.000000	.000000	.000000	.000000	.000000	.000000
3	.000000	.000000	.000000	.000000	.000000	.000000
4	.000000	.000000	.000000	.000000	.000000	.000000
5	.000000	.000000	.000000	.000000	.000000	.000000
6	.000000	.000000	.000000	.000000	.000000	.000000
7	.000000	.000000	.000000	.000000	.000000	.000000
8	.000000	.000000	.000000	.000000	.000000	.000000
9	.000000	.000000	.000000	.000000	.000000	.000000
10	.000000	.000000	.000000	.000000	.000000	.000000
11	.000000	.000000	.000000	.000000	.000000	.000000
12	.000000	.000000	.000000	.000000	.000000	.000000
13	.000000	.000000	.000000	.000000	.000000	.000000
14	.000000	.000000	.000000	.000000	.000000	.000000
15	.000000	.000000	.000000	.000000	.000000	.000000
16	.000000	.000000	.000000	.000000	.000000	.000000

CDM VERSION 80247. RUN 99999

SOURCE INPUT

X	Y	TX	S1	S2	SH	D	VS	T	SA
.50000+001	.50000+001	.10000+005	.40000+004	.40000+004	.20000+002	.00000	.00000	.00000	.00000
.50000+001	.15000+002	.50000+004	.10000+004	.10000+004	.20000+002	.00000	.00000	.00000	.00000
.10000+002	.15000+002	.50000+004	.10000+004	.10000+004	.20000+002	.00000	.00000	.00000	.00000
.15000+002	.15000+002	.50000+004	.10000+004	.10000+004	.20000+002	.00000	.00000	.00000	.00000
.15000+002	.10000+002	.50000+004	.10000+004	.10000+004	.20000+002	.00000	.00000	.00000	.00000
.15000+002	.50000+001	.50000+004	.10000+004	.10000+004	.20000+002	.00000	.00000	.00000	.00000
.12500+002	.12500+002	.00000	.10000+004	.10000+004	.20000+002	.10000+001	.50000+001	.20000+002	.00000

6 AREA SOURCES. 1 POINT SOURCES.

CDM VERSION 80247, RUN 99999
(MICROGRAMS PER CUBIC METER)

COORDINATES		AREA P 1	AREA P 2	POINT P 1	POINT P 2	TOTAL P 1	TOTAL P 2	CALIBRATED P 1	CALIBRATED P 2	OBSERVED P 1	OBSERVED P 2
5.00	5.00	304.	349.	31.	45.	334.	394.	334.	394.	0	0
AREA ROSES											
A P1	39 61 64 61 39 4 4 4 4 4 4 4 4 4 4 4 4 500 500										
A P2	45 71 76 71 45 4 4 4 4 4 4 4 4 4 4 4 4 500 500										
POINT ROSES											
P P1	0 0 31 0 0 0 0 0 0 0 0 0 0 0 0 0 0 500 500										
P P2	0 0 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 500 500										
5.00	6.25	406.	454.	36.	52.	443.	506.	443.	506.	0	0
5.00	7.50	443.	495.	43.	59.	487.	554.	487.	554.	0	0
5.00	8.75	460.	512.	48.	64.	507.	577.	507.	577.	0	0
5.00	10.00	474.	529.	53.	70.	527.	599.	527.	599.	0	0
5.00	11.25	477.	532.	58.	76.	535.	608.	535.	608.	0	0
5.00	12.50	478.	533.	58.	76.	536.	609.	536.	609.	0	0
5.00	13.75	477.	532.	58.	76.	535.	608.	535.	608.	0	0
5.00	15.00	474.	529.	53.	70.	527.	599.	527.	599.	0	0
5.00	16.25	460.	512.	48.	64.	507.	577.	507.	577.	0	0
5.00	17.50	443.	495.	43.	59.	487.	554.	487.	554.	0	0
5.00	18.75	406.	454.	36.	52.	443.	506.	443.	506.	0	0
5.00	20.00	304.	349.	31.	45.	334.	394.	334.	394.	0	0
AREA ROSES											
A P1	4 4 4 4 39 61 64 61 39 4 4 4 4 4 4 4 4 500 2000										
A P2	4 4 4 4 45 71 76 71 45 4 4 4 4 4 4 4 4 500 2000										
POINT ROSES											
P P1	0 0 0 0 0 0 31 0 0 0 0 0 0 0 0 0 0 500 2000										
P P2	0 0 0 0 0 0 45 0 0 0 0 0 0 0 0 0 0 500 2000										
6.25	5.00	406.	454.	36.	52.	443.	506.	443.	506.	0	0
6.25	6.25	585.	637.	43.	59.	628.	697.	628.	697.	0	0
6.25	7.50	636.	693.	52.	69.	688.	762.	688.	762.	0	0
6.25	8.75	656.	715.	62.	80.	718.	795.	718.	795.	0	0
6.25	10.00	674.	735.	70.	89.	743.	824.	743.	824.	0	0
6.25	11.25	678.	739.	79.	99.	756.	838.	756.	838.	0	0
6.25	12.50	679.	741.	79.	99.	758.	840.	758.	840.	0	0
6.25	13.75	678.	739.	79.	99.	756.	838.	756.	838.	0	0
6.25	15.00	674.	735.	70.	89.	743.	824.	743.	824.	0	0
6.25	16.25	656.	715.	62.	80.	718.	795.	718.	795.	0	0
6.25	17.50	636.	693.	52.	69.	688.	762.	688.	762.	0	0
6.25	18.75	585.	637.	43.	59.	628.	697.	628.	697.	0	0
6.25	20.00	406.	454.	36.	52.	443.	506.	443.	506.	0	0
7.50	5.00	443.	495.	43.	59.	487.	554.	487.	554.	0	0
7.50	6.25	636.	693.	52.	69.	688.	762.	688.	762.	0	0
7.50	7.50	696.	758.	64.	83.	760.	841.	760.	841.	0	0
7.50	8.75	721.	785.	80.	100.	801.	885.	801.	885.	0	0
7.50	10.00	741.	809.	95.	116.	836.	925.	836.	925.	0	0
7.50	11.25	745.	813.	110.	132.	855.	945.	855.	945.	0	0
7.50	12.50	747.	814.	114.	136.	860.	951.	860.	951.	0	0
7.50	13.75	745.	813.	110.	132.	855.	945.	855.	945.	0	0
7.50	15.00	741.	809.	95.	116.	836.	925.	836.	925.	0	0
7.50	16.25	721.	785.	80.	100.	801.	885.	801.	885.	0	0
7.50	17.50	696.	758.	64.	83.	760.	841.	760.	841.	0	0
7.50	18.75	636.	693.	52.	69.	688.	762.	688.	762.	0	0
7.50	20.00	443.	495.	43.	59.	487.	554.	487.	554.	0	0
8.75	5.00	460.	512.	48.	64.	507.	577.	507.	577.	0	0
8.75	6.25	656.	715.	62.	80.	718.	795.	718.	795.	0	0

8.75	7.50	721.	785.	80.	100.	801.	885.	801.	885.	0	0
8.75	8.75	749.	816.	103.	125.	852.	941.	852.	941.	0	0
8.75	10.00	770.	841.	138.	162.	908.	1003.	908.	1003.	0	0

CDM VERSION 80247, RUN 99999
(MICROGRAMS PER CUBIC METER)

COORDINATES		AREA		POINT		TOTAL		CALIBRATED		OBSERVED	
		P 1	P 2	P 1	P 2	P 1	P 2	P 1	P 2	P 1	P 2
8.75	11.25	775.	846.	165.	191.	941.	1037.	941.	1037.	0	0
8.75	12.50	777.	848.	179.	205.	956.	1053.	956.	1053.	0	0
8.75	13.75	775.	846.	165.	191.	941.	1037.	941.	1037.	0	0
8.75	15.00	770.	841.	138.	162.	908.	1003.	908.	1003.	0	0
8.75	16.25	749.	816.	103.	125.	852.	941.	852.	941.	0	0
8.75	17.50	721.	785.	80.	100.	801.	885.	801.	885.	0	0
8.75	18.75	656.	715.	62.	80.	718.	795.	718.	795.	0	0
8.75	20.00	460.	512.	48.	64.	507.	577.	507.	577.	0	0
10.00	5.00	474.	529.	53.	70.	527.	599.	527.	599.	0	0
10.00	6.25	674.	735.	70.	89.	743.	824.	743.	824.	0	0
10.00	7.50	741.	809.	95.	116.	836.	925.	836.	925.	0	0
10.00	8.75	770.	841.	138.	162.	908.	1003.	908.	1003.	0	0
10.00	10.00	792.	867.	197.	224.	990.	1091.	990.	1091.	0	0
10.00	11.25	798.	873.	286.	316.	1084.	1188.	1084.	1188.	0	0
10.00	12.50	801.	876.	337.	368.	1137.	1244.	1137.	1244.	0	0
10.00	13.75	798.	873.	286.	316.	1084.	1188.	1084.	1188.	0	0
10.00	15.00	792.	867.	197.	224.	990.	1091.	990.	1091.	0	0
10.00	16.25	770.	841.	138.	162.	908.	1003.	908.	1003.	0	0
10.00	17.50	741.	809.	95.	116.	836.	925.	836.	925.	0	0
10.00	18.75	674.	735.	70.	89.	743.	824.	743.	824.	0	0
10.00	20.00	474.	529.	53.	70.	527.	599.	527.	599.	0	0
11.25	5.00	477.	532.	58.	76.	535.	608.	535.	608.	0	0
11.25	6.25	678.	739.	79.	99.	756.	838.	756.	838.	0	0
11.25	7.50	745.	813.	110.	132.	855.	945.	855.	945.	0	0
11.25	8.75	775.	846.	165.	191.	941.	1037.	941.	1037.	0	0
11.25	10.00	798.	873.	286.	316.	1084.	1188.	1084.	1188.	0	0
11.25	11.25	804.	879.	555.	591.	1359.	1470.	1359.	1470.	0	0
11.25	12.50	807.	883.	884.	924.	1691.	1807.	1691.	1807.	0	0
11.25	13.75	804.	879.	555.	591.	1359.	1470.	1359.	1470.	0	0
11.25	15.00	798.	873.	286.	316.	1084.	1188.	1084.	1188.	0	0
11.25	16.25	775.	846.	165.	191.	941.	1037.	941.	1037.	0	0
11.25	17.50	745.	813.	110.	132.	855.	945.	855.	945.	0	0
11.25	18.75	678.	739.	79.	99.	756.	838.	756.	838.	0	0
11.25	20.00	477.	532.	58.	76.	535.	608.	535.	608.	0	0
12.50	5.00	478.	533.	58.	76.	536.	609.	536.	609.	0	0
12.50	6.25	679.	741.	79.	99.	758.	840.	758.	840.	0	0
12.50	7.50	747.	814.	114.	136.	860.	951.	860.	951.	0	0
12.50	8.75	777.	848.	179.	205.	956.	1053.	956.	1053.	0	0
12.50	10.00	801.	876.	337.	368.	1137.	1244.	1137.	1244.	0	0
12.50	11.25	807.	883.	884.	924.	1691.	1807.	1691.	1807.	0	0
12.50	12.50	810.	886.	0.	0.	810.	886.	810.	886.	0	0
12.50	13.75	807.	883.	884.	924.	1691.	1807.	1691.	1807.	0	0
12.50	15.00	801.	876.	337.	368.	1137.	1244.	1137.	1244.	0	0
12.50	16.25	777.	848.	179.	205.	956.	1053.	956.	1053.	0	0
12.50	17.50	747.	814.	114.	136.	860.	951.	860.	951.	0	0
12.50	18.75	679.	741.	79.	99.	758.	840.	758.	840.	0	0
12.50	20.00	478.	533.	58.	76.	536.	609.	536.	609.	0	0
13.75	5.00	477.	532.	58.	76.	535.	608.	535.	608.	0	0
13.75	6.25	678.	739.	79.	99.	756.	838.	756.	838.	0	0
13.75	7.50	745.	813.	110.	132.	855.	945.	855.	945.	0	0

CDM VERSION 80247, RUN 99999
(MICROGRAMS PER CUBIC METER)

COORDINATES		AREA		POINT		TOTAL		CALIBRATED		OBSERVED	
		P 1	P 2	P 1	P 2	P 1	P 2	P 1	P 2	P 1	P 2
13.75	8.75	775.	846.	165.	191.	941.	1037.	941.	1037.	0	0
13.75	10.00	798.	873.	286.	316.	1084.	1188.	1084.	1188.	0	0
13.75	11.25	804.	879.	555.	591.	1359.	1470.	1359.	1470.	0	0
13.75	12.50	807.	883.	884.	924.	1691.	1807.	1691.	1807.	0	0
13.75	13.75	804.	879.	555.	591.	1359.	1470.	1359.	1470.	0	0
13.75	15.00	798.	873.	286.	316.	1084.	1188.	1084.	1188.	0	0
13.75	16.25	775.	846.	165.	191.	941.	1037.	941.	1037.	0	0
13.75	17.50	745.	813.	110.	132.	855.	945.	855.	945.	0	0
13.75	18.75	678.	739.	79.	99.	756.	838.	756.	838.	0	0
13.75	20.00	477.	532.	58.	76.	535.	608.	535.	608.	0	0
15.00	5.00	474.	529.	53.	70.	527.	599.	527.	599.	0	0
15.00	6.25	674.	735.	70.	89.	743.	824.	743.	824.	0	0
15.00	7.50	741.	809.	95.	116.	836.	925.	836.	925.	0	0
15.00	8.75	770.	841.	138.	162.	908.	1003.	908.	1003.	0	0
15.00	10.00	792.	867.	197.	224.	990.	1091.	990.	1091.	0	0
15.00	11.25	798.	873.	286.	316.	1084.	1188.	1084.	1188.	0	0
15.00	12.50	801.	876.	337.	368.	1137.	1244.	1137.	1244.	0	0
15.00	13.75	798.	873.	286.	316.	1084.	1188.	1084.	1188.	0	0
15.00	15.00	792.	867.	197.	224.	990.	1091.	990.	1091.	0	0
15.00	16.25	770.	841.	138.	162.	908.	1003.	908.	1003.	0	0
15.00	17.50	741.	809.	95.	116.	836.	925.	836.	925.	0	0
15.00	18.75	674.	735.	70.	89.	743.	824.	743.	824.	0	0
15.00	20.00	474.	529.	53.	70.	527.	599.	527.	599.	0	0
16.25	5.00	460.	512.	48.	64.	507.	577.	507.	577.	0	0
16.25	6.25	656.	715.	62.	80.	718.	795.	718.	795.	0	0
16.25	7.50	721.	785.	80.	100.	801.	885.	801.	885.	0	0
16.25	8.75	749.	816.	103.	125.	852.	941.	852.	941.	0	0
16.25	10.00	770.	841.	138.	162.	908.	1003.	908.	1003.	0	0
16.25	11.25	775.	846.	165.	191.	941.	1037.	941.	1037.	0	0
16.25	12.50	777.	848.	179.	205.	956.	1053.	956.	1053.	0	0
16.25	13.75	775.	846.	165.	191.	941.	1037.	941.	1037.	0	0
16.25	15.00	770.	841.	138.	162.	908.	1003.	908.	1003.	0	0
16.25	16.25	749.	816.	103.	125.	852.	941.	852.	941.	0	0
16.25	17.50	721.	785.	80.	100.	801.	885.	801.	885.	0	0
16.25	18.75	656.	715.	62.	80.	718.	795.	718.	795.	0	0
16.25	20.00	460.	512.	48.	64.	507.	577.	507.	577.	0	0
17.50	5.00	443.	495.	43.	59.	487.	554.	487.	554.	0	0
17.50	6.25	636.	693.	52.	69.	688.	762.	688.	762.	0	0
17.50	7.50	696.	758.	64.	83.	760.	841.	760.	841.	0	0
17.50	8.75	721.	785.	80.	100.	801.	885.	801.	885.	0	0
17.50	10.00	741.	809.	95.	116.	836.	925.	836.	925.	0	0
17.50	11.25	745.	813.	110.	132.	855.	945.	855.	945.	0	0
17.50	12.50	747.	814.	114.	136.	860.	951.	860.	951.	0	0
17.50	13.75	745.	813.	110.	132.	855.	945.	855.	945.	0	0
17.50	15.00	741.	809.	95.	116.	836.	925.	836.	925.	0	0
17.50	16.25	721.	785.	80.	100.	801.	885.	801.	885.	0	0
17.50	17.50	696.	758.	64.	83.	760.	841.	760.	841.	0	0
17.50	18.75	636.	693.	52.	69.	688.	762.	688.	762.	0	0
17.50	20.00	443.	495.	43.	59.	487.	554.	487.	554.	0	0
18.75	5.00	406.	454.	36.	52	443.	506.	443.	506.	0	0

CDM VERSION 80247. RUN 99999
(MICROGRAMS PER CUBIC METER)

COORDINATES		AREA P 1	AREA P 2	POINT P 1	POINT P 2	TOTAL P 1	TOTAL P 2	CALIBRATED P 1	CALIBRATED P 2	OBSERVED P 1	OBSERVED P 2
18.75	6.25	585.	637.	43.	59.	628.	697.	628.	697.	0	0
18.75	7.50	636.	693.	52.	69.	688.	762.	688.	762.	0	0
18.75	8.75	656.	715.	62.	80.	718.	795.	718.	795.	0	0
18.75	10.00	674.	735.	70.	89.	743.	824.	743.	824.	0	0
18.75	11.25	678.	739.	79.	99.	756.	838.	756.	838.	0	0
18.75	12.50	679.	741.	79.	99.	758.	840.	758.	840.	0	0
18.75	13.75	678.	739.	79.	99.	756.	838.	756.	838.	0	0
18.75	15.00	674.	735.	70.	89.	743.	824.	743.	824.	0	0
18.75	16.25	656.	715.	62.	80.	718.	795.	718.	795.	0	0
18.75	17.50	636.	693.	52.	69.	688.	762.	688.	762.	0	0
18.75	18.75	585.	637.	43.	59.	628.	697.	628.	697.	0	0
18.75	20.00	406.	454.	36.	52.	443.	506.	443.	506.	0	0
20.00	5.00	304.	349.	31.	45.	334.	394.	334.	394.	0	0

AREA ROSES

A P1	39	4	4	4	4	4	4	4	4	4	4	4	39	61	64	61	2000	500	
A P2	45	4	4	4	4	4	4	4	4	4	4	4	45	71	76	71	2000	500	

POINT ROSES

P P1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0	2000	500	
P P2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	0	2000	500	

20.00	6.25	406.	454.	36.	52.	443.	506.	443.	506.	0	0								
20.00	7.50	443.	495.	43.	59.	487.	554.	487.	554.	0	0								
20.00	8.75	460.	512.	48.	64.	507.	577.	507.	577.	0	0								
20.00	10.00	474.	529.	53.	70.	527.	599.	527.	599.	0	0								
20.00	11.25	477.	532.	58.	76.	535.	608.	535.	608.	0	0								
20.00	12.50	478.	533.	58.	76.	536.	609.	536.	609.	0	0								
20.00	13.75	477.	532.	58.	76.	535.	608.	535.	608.	0	0								
20.00	15.00	474.	529.	53.	70.	527.	599.	527.	599.	0	0								
20.00	16.25	460.	512.	48.	64.	507.	577.	507.	577.	0	0								
20.00	17.50	443.	495.	43.	59.	487.	554.	487.	554.	0	0								
20.00	18.75	406.	454.	36.	52.	443.	506.	443.	506.	0	0								
20.00	20.00	304.	349.	31.	45.	334.	394.	334.	394.	0	0								

AREA ROSES

A P1	4	4	4	4	4	4	4	4	39	61	64	61	39	4	4	4	2000	2000	
A P2	4	4	4	4	4	4	4	4	45	71	76	71	45	4	4	4	2000	2000	

POINT ROSES

P P1	0	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	2000	2000	
P P2	0	0	0	0	0	0	0	0	0	0	45	0	0	0	0	0	2000	2000	

JXQT U.ABS0

CDMQC (VERSION 80257)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 2. GUIDELINE MODELS (1978)
IN UNAMAP (VERSION 4) DEC 80
SOURCE: FILE 8 ON UNAMAP MAGNETIC TAPE FROM NTIS.

POLLUTANTS TO BE MODELED:

1) SO2
2) PART

OPERATING PARAMETERS:

X-MINIMUM OF AREA EMISSION INVENTORY MAP GRID (XG)	5.625000+002	
Y-MINIMUM OF AREA EMISSION INVESTORY MAP GRID (YG)	4.387500+003	
WIDTH OF BASIC AREA SOURCE SQUARE (TXX)	5.000000+003	METERS
INITIAL SIGMA Z (METERS) FOR AREA SOURCES (SZA):		
STABILITY CLASS: 1	3.000000+001	
2	3.000000+001	
3	3.000000+001	
4	3.000000+001	
5	3.000000+001	
6	3.000000+001	
NUMBER OF SUBSECTORS CONSIDERED IN A 22.5 DEGREE SECTOR (DINT)	1.000000+001	
ANGULAR WIDTH OF A SUBSECTOR (THETA)	2.250000+000	DEGREES
INITIAL RADIAL INCREMENT (DELR)	1.000000+002	METERS
RATIO OF EMISSION GRID TO MAP GRID (RAT)	5.000000+000	
GRID CONVERSION FACTOR (CV)	1.000000+003	

MISCELLANEOUS METEOROLOGICAL DATA:

AVERAGE AFTERNOON MIXING HEIGHT (HT)	1.000000+003	METERS
AVERAGE NOCTURNAL MIXING HEIGHT (HMIN)	1.000000+002	METERS
MEAN ATMOSPHERIC TEMPERATURE (TOA)	1.500000+001	DEGREES CELSIUS
DECAY HALF LIFE FOR SO2 (GB(1))	9.999990+005	HOURS
DECAY HALF LIFE FOR PART (GB(2))	9.999990+005	HOURS
RATIO (YD) OF AVERAGE DAYTIME EMISSION RATE TO THE 24-HOUR EMISSION RATE AVERAGE	1.000000+000	
RATIO (YN) OF AVERAGE NIGHTTIME EMISSION RATE TO THE 24-HOUR EMISSION RATE AVERAGE	1.000000+000	

BACKGROUND CONCENTRATION (BKGR), ARITHMETIC MEAN, FOR:

SO2	1.000000+000	MICROGRAMS/CU. METER
PART	1.000000+000	MICROGRAMS/CU. METER

C L I M A T O L O G I C A L D I S P E R S I O N M O D E L
CDMQC VERSION 80257
AQDM TEST CITY
RUN 100

ANY CULPABILITY LIST(S) WILL INDIVIDUALLY LIST SOURCES CONTRIBUTING GREATER
THAN OR EQUAL TO .00% (CTOF) OF TOTAL CALIBRATED CONCENTRATION

(IOCAL=2) REGRESSION EQUATION CONSTANTS WILL BE DETERMINED BASED ON COMPUTED AND OBSERVED CONCENTRATIONS FOR FIRST SET OF 8 RECEPTORS INPUT; IF COMPUTED CORRELATION COEFFICIENT LESS THAN THEORETICAL VALUE, FOR EITHER POLLUTANT, DEFAULT REGRESSION COEFFICIENT VALUES (INTERCEPT=0, SLOPE=1), TOGETHER WITH INPUT BACKGROUND LEVELS, WILL BE USED TO CALIBRATE; IF COMPUTED CORRELATION COEFFICIENT GREATER THAN OR EQUAL TO THEORETICAL VALUE, FOR BOTH POLLUTANTS, COMPUTED CONSTANTS WILL BE USED TO CALIBRATE.

LARSEN'S STATISTICAL MODEL WILL BE APPLIED FOR THE FOLLOWING AVERAGING TIMES (PAV):

SO2
1.0 HOURS
8.0 HOURS
24.0 HOURS
PART
4.0 HOURS
8.0 HOURS
24.0 HOURS

C L I M A T O L O G I C A L D I S P E R S I O N M O D E L
CDMQC VERSION 00257
AQDM TEST CITY
RUN 100

METEOROLOGICAL JOINT FREQUENCY FUNCTION

STABILITY CLASS 1 — WIND SPEED CLASS

WIND DIRECTION	SECTOR	1	2	3	4	5	6
N	1	.000000	.000000	.000000	.000000	.000000	.000000
NNE	2	.000000	.000000	.000000	.000000	.000000	.000000
NE	3	.000000	.000000	.000000	.000000	.000000	.000000
ENE	4	.000000	.000000	.000000	.000000	.000000	.000000
E	5	.000000	.000000	.000000	.000000	.000000	.000000
ESE	6	.000000	.000000	.000000	.000000	.000000	.000000
SE	7	.000000	.000000	.000000	.000000	.000000	.000000
SSE	8	.000000	.000000	.000000	.000000	.000000	.000000
S	9	.000000	.000000	.000000	.000000	.000000	.000000
SSW	10	.000000	.000000	.000000	.000000	.000000	.000000
SW	11	.000000	.000000	.000000	.000000	.000000	.000000
WSW	12	.000000	.000000	.000000	.000000	.000000	.000000
W	13	.000000	.000000	.000000	.000000	.000000	.000000
WNW	14	.000000	.000000	.000000	.000000	.000000	.000000
NW	15	.000000	.000000	.000000	.000000	.000000	.000000
NNW	16	.000000	.000000	.000000	.000000	.000000	.000000

STABILITY CLASS 2 — WIND SPEED CLASS

WIND DIRECTION	SECTOR	1	2	3	4	5	6
N	1	.000500	.000500	.000000	.000000	.000000	.000000
NNE	2	.000000	.000000	.000000	.000000	.000000	.000000
NE	3	.000000	.000500	.000000	.000000	.000000	.000000
ENE	4	.000500	.000000	.000000	.000000	.000000	.000000
E	5	.000900	.000500	.000500	.000000	.000000	.000000
ESE	6	.000900	.000000	.000000	.000000	.000000	.000000
SE	7	.000900	.000500	.000000	.000000	.000000	.000000
SSE	8	.000000	.000000	.000000	.000000	.000000	.000000
S	9	.000000	.000000	.000000	.000000	.000000	.000000
SSW	10	.000000	.000000	.000000	.000000	.000000	.000000
SW	11	.000000	.000000	.000000	.000000	.000000	.000000
WSW	12	.000900	.000000	.000000	.000000	.000000	.000000
W	13	.000000	.000500	.000000	.000000	.000000	.000000
WNW	14	.000500	.000000	.000000	.000000	.000000	.000000
NW	15	.000000	.000000	.000000	.000000	.000000	.000000
NNW	16	.000000	.000000	.000000	.000000	.000000	.000000

C L I M A T O L O G I C A L D I S P E R S I O N M O D E L
CDMQC VERSION 80257
AQDM TEST CITY
RUN 100

METEOROLOGICAL JOINT FREQUENCY FUNCTION

STABILITY CLASS 3 — WIND SPEED CLASS

WIND DIRECTION	SECTOR	1	2	3	4	5	6
N	1	.000500	.000000	.003200	.000000	.000000	.000000
NNE	2	.000000	.000500	.000900	.000000	.000000	.000000
NE	3	.000000	.000000	.000900	.000000	.000000	.000000
ENE	4	.000900	.000900	.004600	.000000	.000000	.000000
E	5	.001800	.002800	.004100	.000500	.000000	.000000
ESE	6	.000000	.003700	.004600	.000000	.000000	.000000
SE	7	.001400	.003200	.002800	.000000	.000000	.000000
SSE	8	.000000	.002800	.000900	.000000	.000000	.000000
S	9	.000000	.000900	.000900	.000000	.000000	.000000
SSW	10	.000000	.001800	.000900	.000000	.000000	.000000
SW	11	.000000	.001800	.000900	.000000	.000000	.000000
WSW	12	.000500	.001400	.000900	.000000	.000000	.000000
W	13	.000000	.001400	.000900	.000000	.000000	.000000
WNW	14	.000500	.000500	.000900	.000000	.000000	.000000
NW	15	.000000	.000900	.000500	.000000	.000000	.000000
NNW	16	.000000	.001400	.001400	.000000	.000000	.000000

STABILITY CLASS 4 — WIND SPEED CLASS

WIND DIRECTION	SECTOR	1	2	3	4	5	6
N	1	.000000	.001080	.031560	.022980	.002220	.000000
NNE	2	.000000	.000540	.008040	.009420	.001680	.000000
NE	3	.000000	.000540	.006360	.008880	.000300	.000000
ENE	4	.000000	.002220	.006360	.006360	.000300	.000000
E	5	.000000	.003360	.008880	.008280	.003300	.000840
ESE	6	.000000	.001680	.006060	.030420	.006660	.000840
SE	7	.000000	.000840	.013020	.024600	.003060	.000300
SSE	8	.000000	.001080	.010500	.014640	.001680	.000000
S	9	.000000	.000300	.008880	.018000	.001380	.000000
SSW	10	.000000	.000840	.005280	.005280	.000000	.000000
SW	11	.000000	.001080	.001080	.000000	.000000	.000000
WSW	12	.000000	.000540	.005280	.000300	.000000	.000000
W	13	.000000	.002460	.007740	.004140	.000000	.000000
WNW	14	.000000	.002220	.009420	.006660	.001080	.000000
NW	15	.000000	.001380	.014640	.009660	.001680	.000000
NNW	16	.000000	.001680	.018000	.019620	.001380	.000000

C L I M A T O L O G I C A L D I S P E R S I O N M O D E L
CDMQC VERSION 80257
AQDM TEST CITY
RUN 100

METEOROLOGICAL JOINT FREQUENCY FUNCTION

STABILITY CLASS 5

WIND DIRECTION	SECTOR	WIND SPEED CLASS 1	2	3	4	5	6
N	1	.000000	.000720	.021040	.015320	.001480	.000000
NNE	2	.000000	.000360	.005360	.006280	.001120	.000000
NE	3	.000000	.000360	.004240	.005920	.000200	.000000
ENE	4	.000000	.001480	.004240	.004240	.000200	.000000
E	5	.000000	.002240	.005920	.005520	.002200	.000560
ESE	6	.000000	.001120	.004040	.020280	.004440	.000560
SE	7	.000000	.000560	.008680	.016400	.002040	.000200
SSE	8	.000000	.000720	.007000	.009760	.001120	.000000
S	9	.000000	.000200	.005920	.012000	.000920	.000000
SSW	10	.000000	.000560	.003520	.003520	.000000	.000000
SW	11	.000000	.000720	.000720	.000000	.000000	.000000
WSW	12	.000000	.000360	.003520	.000200	.000000	.000000
W	13	.000000	.001640	.005160	.002760	.000000	.000000
WNW	14	.000000	.001480	.006280	.004440	.000720	.000000
NW	15	.000000	.000920	.009760	.006440	.001120	.000000
NNW	16	.000000	.001120	.012000	.013080	.000920	.000000

STABILITY CLASS 6

WIND DIRECTION	SECTOR	WIND SPEED CLASS 1	2	3	4	5	6
N	1	.005100	.012400	.021200	.000000	.000000	.000000
NNE	2	.000500	.002800	.004600	.000000	.000000	.000000
NE	3	.000900	.005100	.002800	.000000	.000000	.000000
ENE	4	.003200	.007800	.004100	.000000	.000000	.000000
E	5	.010600	.016100	.005500	.000000	.000000	.000000
ESE	6	.005500	.016100	.012400	.000000	.000000	.000000
SE	7	.001400	.006900	.004600	.000000	.000000	.000000
SSE	8	.000900	.005100	.005100	.000000	.000000	.000000
S	9	.002800	.004600	.002300	.000000	.000000	.000000
SSW	10	.005100	.006500	.000000	.000000	.000000	.000000
SW	11	.000900	.003700	.000000	.000000	.000000	.000000
WSW	12	.001800	.003700	.000000	.000000	.000000	.000000
W	13	.001800	.006500	.000500	.000000	.000000	.000000
WNW	14	.005500	.012000	.003700	.000000	.000000	.000000
NW	15	.008800	.011100	.003700	.000000	.000000	.000000
NNW	16	.003200	.011500	.006900	.000000	.000000	.000000

CLIMATOLOGICAL DISPERSION MODEL

CDMQC VERSION 80257
AQDM TEST CITY
RUN 100

AREA AND POINT SOURCE INVENTORY

POINT SOURCE ID	X MAP COORDINATE	Y MAP COORDINATE	EMISSION RATE FOR SO2 (GRAMS/SEC)	EMISSION RATE FOR PART (GRAMS/SEC)	STACK HEIGHT (METERS)	STACK DIAM (METERS)	STACK EXIT SPEED (METERS/SEC)	STACK GAS TEMP (DEG CELS)	OPTIONAL PLUME RISE COEFFICIENT (SQ METERS/SEC)
1P	568.50	4403.40	1365.00	527.63	150.00	.00	.00	.00	.00
2P	584.20	4391.60	1580.36	789.60	90.00	8.70	15.20	149.00	.00
3P	577.00	4401.10	221.76	34.13	30.00	.70	17.80	515.00	.00
4P	574.10	4401.50	110.25	54.08	23.00	1.40	15.20	260.00	.00

AREA SOURCE ID	X MAP COORD OF SW GRID CORNER	Y MAP COORD OF SW GRID CORNER	WIDTH OF GRID SQUARE (METERS)	EMISSION RATE FOR SO2 (GRAMS/SEC)	EMISSION RATE FOR PART (GRAMS/SEC)	EMISSION HEIGHT (METERS)
1A	562.50	4402.50	5000.00	1.37	1.68	.00
2A	567.50	4402.50	5000.00	1.26	1.79	.00
3A	572.50	4402.50	5000.00	5.25	3.99	10.00
4A	577.50	4402.50	5000.00	1.47	13.13	.00
5A	582.50	4402.50	5000.00	1.20	1.58	.00
6A	562.50	4397.50	5000.00	2.62	1.47	10.00
7A	567.50	4392.50	10000.00	32.66	21.11	15.00
8A	577.50	4397.50	5000.00	5.46	3.99	10.00
9A	582.50	4397.50	5000.00	6.62	5.78	10.00
10A	562.50	4392.50	5000.00	2.63	1.16	10.00
11A	577.50	4392.50	5000.00	7.88	5.15	20.00
12A	582.50	4392.50	5000.00	5.25	3.68	10.00
13A	562.50	4387.50	5000.00	2.73	1.37	.00
14A	567.50	4387.50	5000.00	2.42	1.89	10.00
15A	572.50	4387.50	5000.00	5.36	4.10	10.00
16A	577.50	4387.50	5000.00	5.57	3.89	10.00
17A	582.50	4387.50	5000.00	2.84	1.47	10.00

C L I M A T O L O G I C A L D I S P E R S I O N M O D E L

CDM2C VERSION 80257
A2DM TEST CITY
RUN 100

********** CALIBRATION PROCEDURE RESULTS: SO2 **********

REGRESSION COEFFICIENTS: OBSERVED (MEASURED MINUS BACKGROUND) VERSUS CALCULATED CONCENTRATIONS

PARAMETER	VALUE	STANDARD DEVIATION
SLOPE	1.15	.15
INTERCEPT	-4.12 MICROGRAMS/CU. METER	3.36 MICROGRAMS/CU. METER
BACKGROUND	1.00 MICROGRAMS/CU. METER	

ANALYSIS OF VARIANCE AND 5% CONFIDENCE LEVEL TEST FOR CORRELATION COEFFICIENT

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARES	MEAN SQUARES	R - SQUARED	CORRELATION COEFFICIENT CALCULATED	5% CONF. LEVEL
REGRESSION	1	1034.29	1034.29	.92	.96	.75
DEVIATIONS ABOUT REGRESSION	5	85.71	17.14			
TOTAL	6	1120.00				

AVERAGED OBSERVED CONCENTRATION: 19.00 MICROGRAMS/CU. METER
AVERAGED CALCULATED CONCENTRATION: 20.10 MICROGRAMS/CU. METER

********** CALIBRATION PROCEDURE RESULTS: PART **********

REGRESSION COEFFICIENTS: OBSERVED (MEASURED MINUS BACKGROUND) VERSUS CALCULATED CONCENTRATIONS

PARAMETER	VALUE	STANDARD DEVIATION
SLOPE	1.46	.33
INTERCEPT	-3.50 MICROGRAMS/CU. METER	3.15 MICROGRAMS/CU. METER
BACKGROUND	1.00 MICROGRAMS/CU. METER	

ANALYSIS OF VARIANCE AND 5% CONFIDENCE LEVEL TEST FOR CORRELATION COEFFICIENT

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARES	MEAN SQUARES	R - SQUARED	CORRELATION COEFFICIENT CALCULATED	5% CONF. LEVEL
REGRESSION	1	221.69	221.69	.77	.88	.71
DEVIATIONS ABOUT REGRESSION	6	66.19	11.03			
TOTAL	7	287.87				

AVERAGED OBSERVED CONCENTRATION: 9.62 MICROGRAMS/CU. METER
AVERAGED CALCULATED CONCENTRATION: 9.01 MICROGRAMS/CU. METER

C L I M A T O L O G I C A L D I S P E R S I O N M O D E L

CDMQC VERSION 80257
AQDM TEST CITY
RUN 100

****
CALCULATED CORRELATION COEFFICIENTS GREATER THAN OR EQUAL TO THEORETICAL (5% CONF. LEVEL) VALUES;
COMPUTED REGRESSION CONSTANTS WILL BE USED TO CALIBRATE CALCULATED CONCENTRATIONS.
****

RECEPTOR DATA ASSOCIATED WITH REGRESSION PARAMETERS: SO2

	LOCATION		CONCENTRATION (MICROGRAMS/CU. METER)		
RECEPTOR ID	X COORD	Y COORD	CALCULATED ** UNCALIBRATED	OBSERVED *	CALCULATED ** CALIBRATED
TC01	562.00	4395.70	8.86	9.00	6.07
TC02	566.10	4400.00	16.67	17.00	15.06
TC03	570.00	4393.20	20.25	11.00	19.17
TC04	573.90	4388.90	14.07	13.00	12.06
TC06	572.40	4402.20	44.35	49.00	46.90
TC07	579.00	4394.00	20.67	19.00	19.66
TC08	583.00	4399.20	15.81	15.00	14.07

RECEPTOR DATA ASSOCIATED WITH REGRESSION PARAMETERS: PART

	LOCATION		CONCENTRATION (MICROGRAMS/CU. METER)		
RECEPTOR ID	X COORD	Y COORD	CALCULATED ** UNCALIBRATED	OBSERVED *	CALCULATED ** CALIBRATED
TC01	562.00	4395.70	4.03	5.00	2.38
TC02	566.10	4400.00	7.28	9.00	7.11
TC03	570.00	4393.20	9.29	7.00	10.03
TC04	573.90	4388.90	6.97	10.00	6.66
TC05	572.50	4396.70	10.61	8.00	11.96
TC06	572.40	4402.20	17.29	25.00	21.69
TC07	579.00	4394.00	8.70	7.00	9.17
TC08	583.00	4399.20	7.90	6.00	8.01

* OBSERVED = INPUT MEASURED VALUE - INPUT BACKGROUND VALUE
** BACKGROUND CONCENTRATION IS NOT INCLUDED

C L I M A T O L O G I C A L D I S P E R S I O N M O D E L
CDMQC VERSION 80257
AQDM TEST CITY
RUN 100

RESULTS: RECEPTOR NUMBER 1 (TC01)

X COORDINATE: 562.00
Y COORDINATE: 4395.70

********** POINT ROSES (MICROGRAMS/CU. METER) **********

CARD ID	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
P1 (SO2)	.0	.0	2.0	1.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
P2 (PART)	.0	.0	.7	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

********** AREA ROSES (MICROGRAMS/CU. METER) **********

CARD ID	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
A1 (SO2)	.0	.0	.1	.3	.7	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
A2 (PART)	.0	.0	.1	.2	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0

CLIMATOLOGICAL DISPERSION MODEL

CDMQC VERSION 80257
ARDM TEST CITY
RUN 100

RESULTS: RECEPTOR NUMBER 2 (TC02)

X COORDINATE: 566.10
Y COORDINATE: 4400.00

********** POINT ROSES (MICROGRAMS/CU. METER) **********

CARD ID	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
P1 (SO2)	.0	.0	3.5	.0	5.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
P2 (PART)	.0	.0	1.5	.0	1.6	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

********** AREA ROSES (MICROGRAMS/CU. METER) **********

CARD ID	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
A1 (SO2)	.2	.1	.1	.3	.9	.9	.4	.2	.1	.1	.0	.0	.0	.1	.1	.1
A2 (PART)	.2	.1	.1	.5	.7	.6	.3	.1	.1	.1	.0	.0	.0	.0	.1	.1

CLIMATOLOGICAL DISPERSION MODEL

CDM2C VERSION 80257
AQDM TEST CITY
RUN 100

RESULTS: RECEPTOR NUMBER 5 (TC05)

X COORDINATE: 572.50
Y COORDINATE: 4396.70

********** POINT ROSES (MICROGRAMS/CU. METER) **********

CARD ID	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
P1 (SO2)	.0	2.1	3.9	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.9
P2 (PART)	.0	1.2	.7	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0

********** AREA ROSES (MICROGRAMS/CU. METER) **********

CARD ID	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
A1 (SO2)	.7	.2	.2	.4	.8	.8	.4	.3	.2	.2	.1	.1	.2	.3	.5	.4
A2 (PART)	.6	.2	.4	.3	.6	.6	.3	.2	.2	.2	.1	.1	.1	.3	.4	.4

********** INDIVIDUAL SOURCE CONTRIBUTIONS **********

POLLUTANT: PART

	MICROGRAMS/ CU. METER	PERCENTAGE OF TOTAL
POINT SOURCES		
1P	3.97	30.62
2P	1.25	9.62
3P	.69	5.35
4P	1.19	9.18
AREA SOURCES		
1A	.11	.83
2A	.14	1.09
3A	.15	1.17
4A	.28	2.14
5A	.03	.23
6A	.06	.48
7A	2.99	23.06
8A	.12	.95
9A	.16	1.21
10A	.02	.17
11A	.30	2.32
12A	.14	1.09
13A	.02	.15
14A	.05	.42
15A	.13	1.00

CLIMATOLOGICAL DISPERSION MODEL

CDMQC VERSION 80257
AQDM TEST CITY
RUN 100

RESULTS: RECEPTOR NUMBER 5 (TC05)

********** INDIVIDUAL SOURCE CONTRIBUTIONS **********

POLLUTANT: PART

	MICROGRAMS/ CU. METER	PERCENTAGE OF TOTAL
AREA SOURCES		
16A	.11	.87
17A	.04	.34
SOURCES INDIVIDUALLY CONTRIBUTING LESS THAN .00%	.00	.00
BACKGROUND	1.00	7.72
TOTAL	12.96	100.00

C L I M A T O L O G I C A L D I S P E R S I O N M O D E L
CDM2C VERSION 80257
AQDM TEST CITY
RUN 100

RESULTS: RECEPTOR NUMBER 8 (TC08)

X COORDINATE: 583.00
Y COORDINATE: 4399.20

********** INDIVIDUAL SOURCE CONTRIBUTIONS **********

	POLLUTANT: SO2		POLLUTANT: PART	
	MICROGRAMS/ CU. METER	PERCENTAGE OF TOTAL	MICROGRAMS/ CU. METER	PERCENTAGE OF TOTAL
POINT SOURCES				
1P	2.41	16.01	1.06	11.79
2P	.60	4.00	.34	3.81
3P	6.08	40.31	1.07	11.83
4P	.96	6.36	.54	5.95
AREA SOURCES				
1A	.03	.22	.05	.51
2A	.03	.22	.05	.59
3A	.16	1.09	.14	1.58
4A	.14	.93	1.43	15.88
5A	.09	.62	.14	1.56
6A	.02	.12	.01	.13
7A	.37	2.45	.27	3.01
8A	.58	3.82	.48	5.32
9A	1.93	12.83	1.92	21.35
10A	.01	.10	.01	.08
11A	.17	1.14	.13	1.43
12A	.28	1.84	.22	2.46
13A	.01	.09	.01	.09
14A	.01	.06	.01	.10
15A	.03	.21	.03	.31
16A	.09	.61	.07	.81
17A	.05	.31	.03	.31
SOURCES INDIVIDUALLY CONTRIBUTING LESS THAN .00%	.00	.00	.00	.00
BACKGROUND	1.00	6.64	1.00	11.10
TOTAL	15.07	100.00	9.01	100.00

CLIMATOLOGICAL DISPERSION MODEL

CDMQC VERSION 80257
AQDM TEST CITY
RUN 100

RESULTS: RECEPTOR NUMBER 9 (TC09)

X COORDINATE: 577.50
Y COORDINATE: 4397.50

********** POINT ROSES (MICROGRAMS/CU. METER) **********

CARD ID	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
P1 (SO2)	27.3	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	4.1	2.9	.0
P2 (PART)	4.7	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	1.8	1.6	.0

********** AREA ROSES (MICROGRAMS/CU. METER) **********

CARD ID	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
A1 (SO2)	.6	.1	.2	.3	.6	.6	.4	.3	.3	.3	.1	.2	.3	.5	.6	.5
A2 (PART)	.8	.3	.2	.3	.5	.4	.3	.2	.2	.2	.1	.1	.2	.4	.5	.4

C L I M A T O L O G I C A L D I S P E R S I O N M O D E L
CDM2C VERSION 80257
AQDM TEST CITY
RUN 100

RESULTS: RECEPTOR NUMBER 10 (TC10)

X COORDINATE: 576.00
Y COORDINATE: 4403.00

********** POINT ROSES (MICROGRAMS/CU. METER) **********

CARD ID	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
P1 (SO2)	.0	.0	.0	.0	.0	.0	1.6	21.5	.0	.0	.8	.0	4.4	.0	.0	.0
P2 (PART)	.0	.0	.0	.0	.0	.0	1.0	3.7	.0	.0	.4	.0	1.9	.0	.0	.0

********** AREA ROSES (MICROGRAMS/CU. METER) **********

CARD ID	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
A1 (SO2)	.3	.1	.1	.2	.4	.7	.4	.4	.4	.4	.1	.2	.2	.3	.3	.2
A2 (PART)	.3	.1	.3	.7	1.2	.6	.3	.3	.3	.3	.1	.1	.2	.3	.2	.2

********** INDIVIDUAL SOURCE CONTRIBUTIONS **********

POLLUTANT: SO2

	MICROGRAMS/ CU. METER	PERCENTAGE OF TOTAL
POINT SOURCES		
1P	4.38	12.89
2P	1.83	5.40
3P	21.46	63.17
4P	.76	2.25
AREA SOURCES		
1A	.05	.14
2A	.10	.28
3A	1.77	5.21
4A	.18	.54
5A	.07	.20
6A	.03	.08
7A	1.05	3.08
8A	.46	1.35
9A	.34	1.00
10A	.01	.04
11A	.15	.44
12A	.11	.31
13A	.02	.06
14A	.03	.09
15A	.07	.21

C L I M A T O L O G I C A L D I S P E R S I O N M O D E L

CDM2C VERSION 80257
AQDM TEST CITY
RUN 100

RESULTS: RECEPTOR NUMBER 10 (TC10)

********** INDIVIDUAL SOURCE CONTRIBUTIONS **********

POLLUTANT: SO2

	MICROGRAMS/ CU. METER	PERCENTAGE OF TOTAL
AREA SOURCES		
16A	.07	.19
17A	.03	.10
SOURCES INDIVIDUALLY CONTRIBUTING LESS THAN .00%	.00	.00
BACKGROUND	1.00	2.94
TOTAL	33.97	100.00

C L I M A T O L O G I C A L D I S P E R S I O N M O D E L
CDMQC VERSION 80257
AQDM TEST CITY
RUN 100

CALIBRATED CONCENTRATION (MICROGRAMS/CU. METER)

RECEPTOR NO.	ID	X COORD	Y COORD	POLLUTANT: SO2 POINT SOURCES	AREA SOURCES	BACKGROUND	TOTAL	POLLUTANT: PART POINT SOURCES	AREA SOURCES	BACKGROUND	TOTAL
1	TC01	562.00	4395.70	4.3	1.8	1.0	7.1	1.3	1.1	1.0	3.4
2	TC02	566.10	4400.00	11.3	3.8	1.0	16.1	4.0	3.1	1.0	8.1
3	TC03	570.00	4393.20	14.0	5.1	1.0	20.2	5.9	4.1	1.0	11.0
4	TC04	573.90	4388.90	8.2	3.9	1.0	13.1	3.4	3.2	1.0	7.7
5	TC05	572.50	4396.70	17.0	5.8	1.0	23.9	7.1	4.9	1.0	13.0
6	TC06	572.40	4402.20	41.7	5.2	1.0	47.9	16.3	5.4	1.0	22.7
7	TC07	579.00	4394.00	14.6	5.1	1.0	20.7	4.6	4.5	1.0	10.2
8	TC08	583.00	4399.20	10.1	4.0	1.0	15.1	3.0	5.0	1.0	9.0
9	TC09	577.50	4397.50	35.8	5.8	1.0	42.6	8.9	5.1	1.0	15.0
10	TC10	576.00	4403.00	28.4	4.5	1.0	34.0	7.0	5.5	1.0	13.5

C L I M A T O L O G I C A L D I S P E R S I O N M O D E L
CDMQC VERSION 80257
AQDM TEST CITY
RUN 100

STATISTICAL DATA AT SELECTED RECEPTORS (MICROGRAMS/CU. METER)

AVERAGING TIME = 1.0 HOURS

POLLUTANT: SO2

RECEPTOR NUMBER	RECEPTOR ID	X COORD	Y COORD	EXPECTED GEOMETRIC MEAN	EXPECTED MAXIMUM CONCENTRATION	STANDARD GEOMETRIC DEVIATION	EXPECTED ANNUAL ARITHMETIC MEAN
1	TC01	562.00	4395.70	5.39	89.28	2.09	7.07
3	TC03	570.00	4393.20	15.23	265.62	2.12	20.17

C L I M A T O L O G I C A L D I S P E R S I O N M O D E L
CDM2C VERSION 80257
AQDM TEST CITY
RUN 100

STATISTICAL DATA AT SELECTED RECEPTORS (MICROGRAMS/CU. METER)

AVERAGING TIME = 8.0 HOURS

POLLUTANT: SO2

RECEPTOR NUMBER	RECEPTOR ID	X COORD	Y COORD	EXPECTED GEOMETRIC MEAN	EXPECTED MAXIMUM CONCENTRATION	STANDARD GEOMETRIC DEVIATION	EXPECTED ANNUAL ARITHMETIC MEAN
1	TC01	562.00	4395.70	5.74	47.32	1.91	7.07
3	TC03	570.00	4393.20	16.24	139.30	1.93	20.17

C L I M A T O L O G I C A L D I S P E R S I O N M O D E L
CDMQC VERSION 80257
AQDM TEST CITY
RUN 100

STATISTICAL DATA AT SELECTED RECEPTORS (MICROGRAMS/CU. METER)

AVERAGING TIME = 24.0 HOURS

POLLUTANT: SO2

RECEPTOR NUMBER	RECEPTOR ID	X COORD	Y COORD	EXPECTED GEOMETRIC MEAN	EXPECTED MAXIMUM CONCENTRATION	STANDARD GEOMETRIC DEVIATION	EXPECTED ANNUAL ARITHMETIC MEAN
1	TC01	562.00	4395.70	5.93	33.92	1.81	7.07
3	TC03	570.00	4393.20	16.81	99.31	1.83	20.17

C L I M A T O L O G I C A L D I S P E R S I O N M O D E L

CDMQC VERSION 80257
AQDM TEST CITY
RUN 100

STATISTICAL DATA AT SELECTED RECEPTORS (MICROGRAMS/CU. METER)

AVERAGING TIME = 4.0 HOURS

POLLUTANT: PART

RECEPTOR NUMBER	RECEPTOR ID	X COORD	Y COORD	EXPECTED GEOMETRIC MEAN	EXPECTED MAXIMUM CONCENTRATION	STANDARD GEOMETRIC DEVIATION	EXPECTED ANNUAL ARITHMETIC MEAN
1	TC01	562.00	4395.70	2.81	22.81	1.83	3.38
4	TC04	573.90	4388.90	6.50	46.93	1.77	7.66
5	TC05	572.50	4396.70	10.70	90.93	1.86	12.96

C L I M A T O L O G I C A L D I S P E R S I O N M O D E L
CDMQC VERSION 80257
AQDM TEST CITY
RUN 100

STATISTICAL DATA AT SELECTED RECEPTORS (MICROGRAMS/CU. METER)

AVERAGING TIME = 8.0 HOURS

POLLUTANT: PART

RECEPTOR NUMBER	RECEPTOR ID	X COORD	Y COORD	EXPECTED GEOMETRIC MEAN	EXPECTED MAXIMUM CONCENTRATION	STANDARD GEOMETRIC DEVIATION	EXPECTED ANNUAL ARITHMETIC MEAN
1	TC01	562.00	4395.70	2.86	18.85	1.78	3.38
4	TC04	573.90	4388.90	6.60	39.16	1.73	7.66
5	TC05	572.50	4396.70	10.88	74.86	1.81	12.96

C L I M A T O L O G I C A L D I S P E R S I O N M O D E L

CDM2C VERSION 80257

AQDM TEST CITY

RUN 100

STATISTICAL DATA AT SELECTED RECEPTORS (MICROGRAMS/CU. METER)

AVERAGING TIME = 24.0 HOURS

POLLUTANT: PART

RECEPTOR NUMBER	RECEPTOR ID	X COORD	Y COORD	EXPECTED GEOMETRIC MEAN	EXPECTED MAXIMUM CONCENTRATION	STANDARD GEOMETRIC DEVIATION	EXPECTED ANNUAL ARITHMETIC MEAN
1	TC01	562.00	4395.70	2.93	13.95	1.70	3.38
4	TC04	573.90	4388.90	6.76	29.45	1.65	7.66
5	TC05	572.50	4396.70	11.18	55.08	1.72	12.96

∂XQT U.ABS10

HIWAY (VERSION 78010)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 2. GUIDELINE MODELS (1978)
IN UNAMAP (VERSION 4) DEC 80
SOURCE: FILE 10 ON UNAMAP MAGNETIC TAPE FROM NTIS.

AT-GRADE SECTION EXAMPLE FOR HIWAY USERS MANUAL

HIWAY VERSION: 78010
ENDPOINTS OF THE LINE SOURCE
2.500, .023 AND -2.500, .023
EMISSION HEIGHT IS .000 METERS
EMISSION RATE (GRAMS/SECOND*METER) OF 5 LANE(S)
.112-001 .103-001 .106-001 .156-001 .000
WIDTH OF AT-GRADE HIGHWAY IS 56.0 M
WIDTH OF CENTER STRIP IS 30.0 M
WIND DIRECTION IS 52. DEGREES
WIND SPEED IS 3.7 METERS/SEC
STABILITY CLASS IS 3
HEIGHT OF LIMITING LID IS 1000.0 METERS
THE SCALE OF THE COORDINATE AXES IS 1.0000 KM/USER UNIT.

RECEPTOR LOCATION X	Y	HEIGHT Z(M)	CONCENTRATION UGM/METER**3	PPM *
.0000	-.0010	.0000	4559.	3.966
.0000	-.0050	.0000	4372.	3.804
.0000	-.0100	.0000	3668.	3.191
.0000	-.0300	.0000	2326.	2.023
.0000	-.0500	.0000	1748.	1.521

* PPM CONCENTRATIONS CORRECT FOR CARBON MONOXIDE ONLY.

CUT-SECTION EXAMPLE FOR HIWAY USERS MANUAL

HIWAY VERSION: 78010
ENDPOINTS OF THE LINE SOURCE
2.500, .025 AND -2.500, .025
EMISSION HEIGHT IS .000 METERS
EMISSION RATE (GRAMS/SECOND*METER) OF 5 LANE(S)
.112-001 .103-001 .106-001 .156-001 .000
WIDTH OF TOP OF CUT SECTION IS 50.000 M
WIND DIRECTION IS 52. DEGREES
WIND SPEED IS 3.7 METERS/SEC
STABILITY CLASS IS 3
HEIGHT OF LIMITING LID IS 1000.0 METERS
THE SCALE OF THE COORDINATE AXES IS 1.0000 KM/USER UNIT.

RECEPTOR LOCATION X	Y	HEIGHT Z(M)	CONCENTRATION UGM/METER**3	PPM *

.0000	-.0010	.0000	4219.	3.670
.0000	-.0050	.0000	3739.	3.253
.0000	-.0100	.0000	3259.	2.835
.0000	-.0300	.0000	2213.	1.925
.0000	-.0500	.0000	1702.	1.481

* PPM CONCENTRATIONS CORRECT FOR CARBON MONOXIDE ONLY.

.XQT U.ABS11

VALLEY (VERSION 80338)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 2. GUIDELINE MODELS (1978)
IN UNAMAP (VERSION 4) DEC 80
SOURCE: FILE 11 ON UNAMAP MAGNETIC TAPE FROM NTIS.

TEST RUN -- SO2

STABILITY	SPD(MPS) WIND DIR	2.500	.000	.000	.000	.000	.000
A	N	.0000	.0000	.0000	.0000	.0000	.0000
A	NNE	.0000	.0000	.0000	.0000	.0000	.0000
A	NE	.0000	.0000	.0000	.0000	.0000	.0000
A	ENE	.0000	.0000	.0000	.0000	.0000	.0000
A	E	.0000	.0000	.0000	.0000	.0000	.0000
A	ESE	.0000	.0000	.0000	.0000	.0000	.0000
A	SE	.0000	.0000	.0000	.0000	.0000	.0000
A	SSE	.0000	.0000	.0000	.0000	.0000	.0000
A	S	.0000	.0000	.0000	.0000	.0000	.0000
A	SSW	.0000	.0000	.0000	.0000	.0000	.0000
A	SW	.0000	.0000	.0000	.0000	.0000	.0000
A	WSW	.0000	.0000	.0000	.0000	.0000	.0000
A	W	.0000	.0000	.0000	.0000	.0000	.0000
A	WNW	.0000	.0000	.0000	.0000	.0000	.0000
A	NW	.0000	.0000	.0000	.0000	.0000	.0000
A	NNW	.0000	.0000	.0000	.0000	.0000	.0000
B	N	.0000	.0000	.0000	.0000	.0000	.0000
B	NNE	.0000	.0000	.0000	.0000	.0000	.0000
B	NE	.0000	.0000	.0000	.0000	.0000	.0000
B	ENE	.0000	.0000	.0000	.0000	.0000	.0000
B	E	.0000	.0000	.0000	.0000	.0000	.0000
B	ESE	.0000	.0000	.0000	.0000	.0000	.0000
B	SE	.0000	.0000	.0000	.0000	.0000	.0000
B	SSE	.0000	.0000	.0000	.0000	.0000	.0000
B	S	.0000	.0000	.0000	.0000	.0000	.0000
B	SSW	.0000	.0000	.0000	.0000	.0000	.0000
B	SW	.0000	.0000	.0000	.0000	.0000	.0000
B	WSW	.0000	.0000	.0000	.0000	.0000	.0000
B	W	.0000	.0000	.0000	.0000	.0000	.0000
B	WNW	.0000	.0000	.0000	.0000	.0000	.0000
B	NW	.0000	.0000	.0000	.0000	.0000	.0000
B	NNW	.0000	.0000	.0000	.0000	.0000	.0000
C	N	.0000	.0000	.0000	.0000	.0000	.0000
C	NNE	.0000	.0000	.0000	.0000	.0000	.0000
C	NE	.0000	.0000	.0000	.0000	.0000	.0000
C	ENE	.0000	.0000	.0000	.0000	.0000	.0000
C	E	.0000	.0000	.0000	.0000	.0000	.0000

C	ESE	.0000	.0000	.0000	.0000	.0000	.0000
C	SE	.0000	.0000	.0000	.0000	.0000	.0000
C	SSE	.0000	.0000	.0000	.0000	.0000	.0000
C	S	.0000	.0000	.0000	.0000	.0000	.0000
C	SSW	.0000	.0000	.0000	.0000	.0000	.0000
C	SW	.0000	.0000	.0000	.0000	.0000	.0000
C	WSW	.0000	.0000	.0000	.0000	.0000	.0000
C	W	.0000	.0000	.0000	.0000	.0000	.0000
C	WNW	.0000	.0000	.0000	.0000	.0000	.0000
C	NW	.0000	.0000	.0000	.0000	.0000	.0000
C	NNW	.0000	.0000	.0000	.0000	.0000	.0000
D	N	.0000	.0000	.0000	.0000	.0000	.0000
D	NNE	.0000	.0000	.0000	.0000	.0000	.0000
D	NE	.0000	.0000	.0000	.0000	.0000	.0000
D	ENE	.0000	.0000	.0000	.0000	.0000	.0000
D	E	.0000	.0000	.0000	.0000	.0000	.0000
D	ESE	.0000	.0000	.0000	.0000	.0000	.0000
D	SE	.0000	.0000	.0000	.0000	.0000	.0000
D	SSE	.0000	.0000	.0000	.0000	.0000	.0000
D	S	.0000	.0000	.0000	.0000	.0000	.0000
D	SSW	.0000	.0000	.0000	.0000	.0000	.0000
D	SW	.0000	.0000	.0000	.0000	.0000	.0000
D	WSW	.0000	.0000	.0000	.0000	.0000	.0000
D	W	.0000	.0000	.0000	.0000	.0000	.0000
D	WNW	.0000	.0000	.0000	.0000	.0000	.0000
D	NW	.0000	.0000	.0000	.0000	.0000	.0000
D	NNW	.0000	.0000	.0000	.0000	.0000	.0000
E	N	.0000	.0000	.0000	.0000	.0000	.0000
E	NNE	.0000	.0000	.0000	.0000	.0000	.0000
E	NE	.0000	.0000	.0000	.0000	.0000	.0000
E	ENE	.0000	.0000	.0000	.0000	.0000	.0000
E	E	.0000	.0000	.0000	.0000	.0000	.0000
E	ESE	.0000	.0000	.0000	.0000	.0000	.0000
E	SE	.0000	.0000	.0000	.0000	.0000	.0000
E	SSE	.0000	.0000	.0000	.0000	.0000	.0000
E	S	.0000	.0000	.0000	.0000	.0000	.0000
E	SSW	.0000	.0000	.0000	.0000	.0000	.0000
E	SW	.0000	.0000	.0000	.0000	.0000	.0000
E	WSW	.0000	.0000	.0000	.0000	.0000	.0000
E	W	.0000	.0000	.0000	.0000	.0000	.0000
E	WNW	.0000	.0000	.0000	.0000	.0000	.0000
E	NW	.0000	.0000	.0000	.0000	.0000	.0000
E	NNW	.0000	.0000	.0000	.0000	.0000	.0000
F	N	.0000	.0000	.0000	.0000	.0000	.0000
F	NNE	.0000	.0000	.0000	.0000	.0000	.0000
F	NE	.0000	.0000	.0000	.0000	.0000	.0000
F	ENE	1.0000	.0000	.0000	.0000	.0000	.0000
F	E	1.0000	.0000	.0000	.0000	.0000	.0000
F	ESE	1.0000	.0000	.0000	.0000	.0000	.0000
F	SE	.0000	.0000	.0000	.0000	.0000	.0000
F	SSE	.0000	.0000	.0000	.0000	.0000	.0000
F	S	.0000	.0000	.0000	.0000	.0000	.0000
F	SSW	.0000	.0000	.0000	.0000	.0000	.0000
F	SW	.0000	.0000	.0000	.0000	.0000	.0000

F	WSW	1.0000	.0000	.0000	.0000	.0000	.0000
F	W	1.0000	.0000	.0000	.0000	.0000	.0000
F	WNW	1.0000	.0000	.0000	.0000	.0000	.0000
F	NW	.0000	.0000	.0000	.0000	.0000	.0000
F	NNW	.0000	.0000	.0000	.0000	.0000	.0000

RELOCATE 2/3 INCH UP-/

1280

VALLEY
MAIN STACK

TEST RUN -- SO2
PARTIAL WIND ROSE FOR EASY DUPLICATION.

10.8

HLIFE= 3.00 HRS. CONCTR CORRCTD TO STD COND VIA FACTOR 1.106. MAX TOWARD 90. DEG. NORTH TOWARD TOP. PLOT 153.126

2.9

14.7

38.8

64.3

140.3

MULTIPLY PRINTED VALUES BY
1.0+02 TO GET CONC. IN UG/M3

* COORD *						
* 460.60*	SOR ELEV	COORDX	COORDY	STK HT	Q(GM/SEC)	FIXD DN
**********	3800.FT	460.00	60.00	75.M	1.2000+03	******

135.8	BRIG.E	BRIG.F	DMIX	DMNI	STAR F WIDTH
	******	51.	0.	100.	6.00*******

61.3

34.4

BRIGUN	P(MB)	MUT
272.	870.	.0

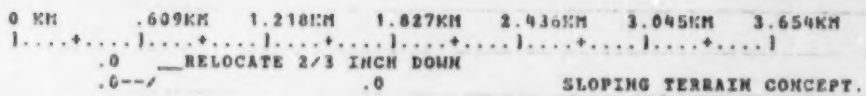
10.8

VV MEAN WIND SPDS(MPS) VV

2.50000	.00000	.00000	.00000	.00000	.00000

5.6

AIR T	GAS T	DIAM	GAS V	FLOW
283.	375.	3.2	4.8	38.6



RURL, SHRT-TERM MODE. .0 SLOPING TERRAIN CONCEPT.

RELOCATE 2/3 INCH UP-/

1280

VALLEY
VENTS.(AS AREA SRC)

TEST RUN -- SO2
PARTIAL WIND ROSE FOR EASY DUPLICATION.

NLIFE= 3.00 HRS. CONCTR CORRCTD TO STD COND VIA FACTOR 1.106. MAX TOWARD 90. DEG. NORTH TOWARD TOP. PLOT 793.776

MULTIPLY PRINTED VALUES BY
1.0+01 TO GET CONC. IN UG/M3

SOR	ELEV	COORDX	COORDY	STK HT	Q(GM/SEC)	FIXD DH
460.60	3800.FT	459.84	59.84	20.M	3.0000+02	0.

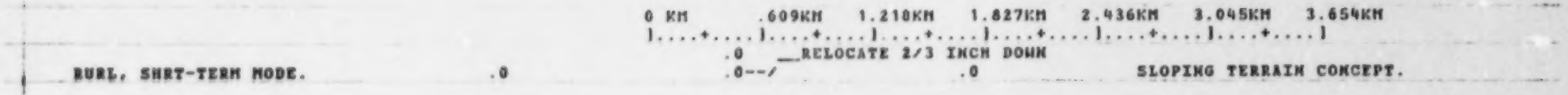
BRIG.E	BRIG.F	DMIX	DMNI	STAR F	WIDTH
**********		0.	100.	6.00	20.

BRIGUN	P(MB)	MWT
********	870.	.0

VV MEAN WIND SPDS(MPS) VV

2.50000	.00000	.00000	.00000	.00000	.00000

AIR T	GAS T	DIAM	GAS V	FLOW
283.	**********	**********	**********	**********


0 KM .609KM 1.218KM 1.827KM 2.436KM 3.045KM 3.654KM
.0
.0--/ RELOCATE 2/3 INCH DOWN
.0
RURL, SHRT-TERM MODE.
.0
SLOPING TERRAIN CONCEPT.

TEST RUN -- SO2 PARTIAL WIND ROSE FOR EASY DUPLICATION.

SOURCE DATA. PLOT 180.013

	SOURCE NAME	COORDX	COORDY	STK HT	EMISS RATE	FIXD DH	SOR W	SOR H	BRIGUN	BRIGE	BRIGF	AIR T	GAS T	DIAM	GAS
1	MAIN STACK	460.00	60.00	75.	1.2000+03	*********	0.	3800.	272.	*******	51.	283.	375.	3.2	4.8
2	VENTS.(AS AREA SRC)	459.84	59.84	20.	3.0000+02	0.	20.	3800.	**********	**********	**********	283.	****	*****	*****

RELOCATE 2/3 INCH UP-/

1280

VALLEY
SUM CONC DUE TO ALL SRCS

TEST RUN -- SO2
PARTIAL WIND ROSE FOR EASY DUPLICATION.

HLIFE= 3.00 HRS. CONCTR CORRCTD TO STD COND VIA FACTOR 1.106. MAX TOWARD 90. DEG. NORTH TOWARD TOP. PLOT 180.013

MULTIPLY PRINTED VALUES BY
1.0+02 TO GET CONC. IN UG/M3

SOR	ELEV	COORDX	COORDY	STK HT	Q(GM/SEC)	FIXD DH
******	FT	**********	**********	M	0.0000	******

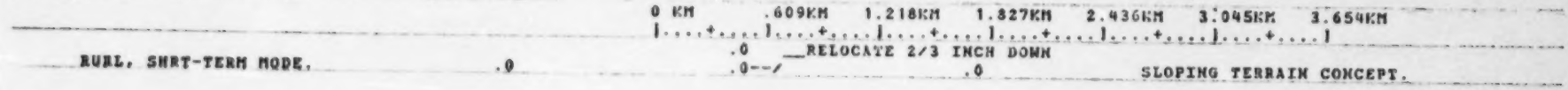
BRIG.E	BRIG.F	DMIX	DMKI	STAR F	WIDTH
**********		0.	100.	6.00	********

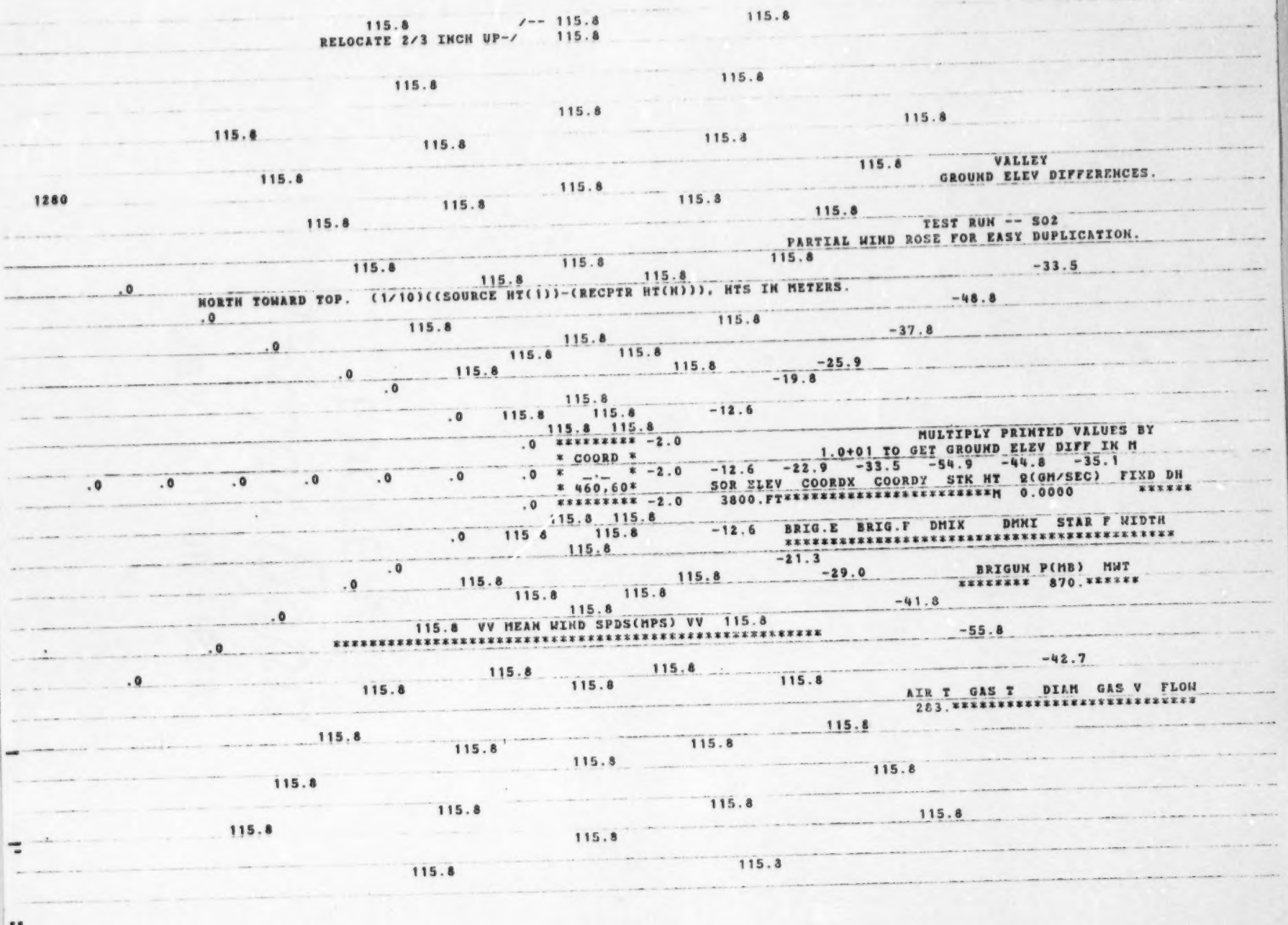
BRIGUN	P(MB)	MWT
********	870.	.0

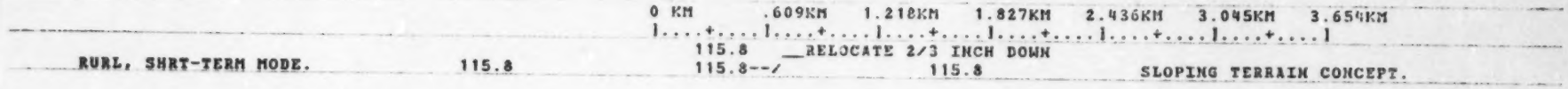
VV MEAN WIND SPDS(MPS) VV

2.50000	.00000	.00000	.00000	.00000	.00000

AIR T	GAS T	DIAM	GAS V	FLOW
283.	**********	**********	**********	**********


0 KM .609KM 1.218KM 1.827KM 2.436KM 3.045KM 3.654KM
.0 RELOCATE 2/3 INCH DOWN
.0
.0
RURL, SHRT-TERM MODE,
SLOPING TERRAIN CONCEPT.


RELOCATE 2/3 INCH UP-/
VALLEY
GROUND ELEV DIFFERENCES.
1260
TEST RUN -- SO2
PARTIAL WIND ROSE FOR EASY DUPLICATION.
NORTH TOWARD TOP. (1/10)((SOURCE HT(I))-(RECPTR HT(N))), HTS IN METERS.
MULTIPLY PRINTED VALUES BY
1.0+01 TO GET GROUND ELEV DIFF IN M
* COORD *
* 460,60*
SOR ELEV COORDX COORDY STK HT
3800.FT
-2.0 -12.6 -22.9 -33.5 -54.9 -44.8 -35.1
Q(GM/SEC) FIXD DH
0.0000
BRIG.E BRIG.F DMIX DMNI STAR F WIDTH
BRIGUN P(MB) MWT
870.
VV MEAN WIND SPDS(MPS) VV
AIR T GAS T DIAM GAS V FLOW
283.



RURL, SHRT-TERM MODE. 115.8 SLOPING TERRAIN CONCEPT.

```
$XQT U.ABS12
```

TEM8 (VERSION 79274)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 2. GUIDELINE MODELS (1978)
IN UNAMAP (VERSION 4) DEC 80
SOURCE: FILE 12 ON UNAMAP MAGNETIC TAPE FROM NTIS.

T E X A S E P I S O D I C M O D E L

VERSION 8 (P-G)

CONTROL PARAMETERS: TEM SAMPLE RUN VERSION 8

AVERAGING TIME OPTION (NTOPT):

OPTION 1: BASIC AVERAGING TIME OF 10 MINUTES
OPTION 2: RESULTS CONVERTED TO 30 MIN AVERAGING TIME
OPTION 3: RESULTS CONVERTED TO 1 HOUR AVERAGING TIME
OPTION 4: RESULTS CONVERTED TO 3 HOUR AVERAGING TIME
OPTION 5: 24 HOUR AVERAGING TIME: 8 3-HOUR SCENARIOS ARE AVERAGED.
OPTION 6: 24 HOUR AVERAGING TIME: 24 1-HOUR SCENARIOS ARE AVERAGED.
OPTION 7: 1 TO 24 SCENARIOS WITH THE BASIC AVERAGING TIME OF 10 MINUTES ARE AVERAGED TO GIVE 1 SET OF PREDICTED CONCENTRATIONS.
OPTION 8: 1 TO 24 SCENARIOS WITH 1 HOUR AVERAGING TIMES ARE AVERAGED TO GIVE 1 SET OF PREDICTED CONCENTRATIONS.

OPTION 4 HAS BEEN SELECTED.

1 SCENARIO(S) ARE INCLUDED IN THIS RUN.
MAXIMUM IS NSCEN = 24.

POLLUTANT(S) 1&2 ON POLLUTANT SOURCE CARDS
ARE MODELED IN THIS RUN.

DT/DZ (E STABILITY) = .0200
DT/DZ (F STABILITY) = .0350

PUNCH INTERVAL = 1.

THE STACK-TIP DOWNWASH ALGORITHM IS IN EFFECT.

WIND DIRECTION OPTIONS (NWDOPT):

OPTION 0: WIND DIRECTION IN DEGREES SPECIFIED FOR EACH SCENARIO
OPTION 1: WIND SECTOR NUMBER SPECIFIED FOR EACH SCENARIO

OPTIONS 2-7 ARE SIMILAR. FOR EACH, THE WIND DIRECTION IS SPECIFIED IN DEGREES, AND 4 ACTUAL SCENARIOS ARE GENERATED FOR EACH SCENARIO CARD. FOR EACH OF THESE 4 SCENARIOS, ALL WEATHER PARAMETERS REMAIN THE SAME EXCEPT THE WIND DIRECTION. THE WIND DIRECTION FOR THE FIRST SCENARIO IS THE ONE ENTERED ON THE CARD; FOR EACH OF THE SUCCEEDING SCENARIOS, THE WIND DIRECTION IS INCREASED BY 90,45,30,15, 10, OR 5 DEGREES, DEPENDING ON THE OPTION USED:

OPTION 2: 90 DEGREE W.D. INCREMENT
OPTION 3: 45 DEGREE W.D. INCREMENT
OPTION 4: 30 DEGREE W.D. INCREMENT
OPTION 5: 15 DEGREE W.D. INCREMENT
OPTION 6: 10 DEGREE W.D. INCREMENT
OPTION 7: 5 DEGREE W.D. INCREMENT

WIND SPEED OPTIONS (NWSOPT):

OPTION 0: WIND SPEED IN METERS PER SECOND SPECIFIED FOR EACH SCENARIO
OPTION 1: WIND SPEED CLASS NUMBER SPECIFIED FOR EACH SCENARIO

OPTION 1 HAS BEEN SELECTED.

INPUT UNITS OPTION (NSRCOP):

OPTION 1: GRID PARAMETERS AND SOURCE LOCATIONS IN KM, SOURCE PARAMETERS IN M, M/S, GM/S, DEGREES CELSIUS.
OPTION 2: GRID PARAMETERS AND SOURCE LOCATIONS IN FT, SOURCE PARAMETERS IN FT, FT/S, LB/HR, DEGREES FAHRENHEIT.
OPTION 3: MIXED UNITS - GRID PARAMETERS AND SOURCE LOCATIONS IN KM, SOURCE PARAMETERS IN FT, FT/S, LB/HR, DEGREES FAHRENHEIT.

(ALL AREA SOURCE INPUT IS IN METRIC UNITS)

OPTION 1 HAS BEEN SELECTED.

OPTION 1 HAS BEEN SELECTED.

RECEPTOR GRID CONSISTS OF 25 COLUMNS AND 25 ROWS OF SPACING = 1.000 KM. SOUTHWEST CORNER OF GRID = 300.000 KM W, 3000.000 KM S.

AREA SOURCE SCALING FACTOR, 1ST POLLUTANT, = .0000 AREA SOURCE SCALING FACTOR, 2ND POLLUTANT, = .0000

CONCENTRATION CALIBRATION FACTORS: A(1) = .0000, B(1) = 10.0000; A(2) = .0000, B(2) = 10.0000

POL 1 ID:PARTICULATE POL 1 CAL ID:MULT.BY TEN / POL 2 ID:SO2 POL 2 CAL ID:MULT. BY TEN

OUTPUT WILL BE PRESENTED IN THE FOLLOWING FORM(S):

MAP OF CONCENTRATIONS IN GRID. UNCALIBRATED ONLY
MAXIMUM PREDICTED CONCENTRATION(S) FOR EACH SCENARIO

T E X A S E P I S O D I C M O D E L VERSION 8 (P-G)

SCENARIO PARAMETERS: TEM SAMPLE RUN VERSION 8

WIND DIRECTIONS

SECTOR NUMBER		DIRECTION (DEGREES)	SECTOR NUMBER		DIRECTION (DEGREES)
1	N	0.0	9	S	180.0
2	NNE	22.5	10	SSW	202.5
3	NE	45.0	11	SW	225.0
4	ENE	67.5	12	WSW	247.5
5	E	90.0	13	W	270.0
6	ESE	112.5	14	WNW	292.5
7	SE	135.0	15	NW	315.0
8	SSE	157.5	16	NNW	337.5

WIND SPEED CLASSES

CLASS INDEX	SPEED (M/S)	SPEED CLASS INTERVAL(KT)
1	1.50	0- 3
2	2.46	4- 6
3	4.47	7-10
4	6.93	11-16
5	9.61	17-21
6	12.52	OVER 21

STABILITY CLASSES

CLASS INDEX	CLASS
1	A
2	B
3	C
4	D (DAY)
5	D (NIGHT)
6	E
7	F

SCENARIO NUMBER	STABILITY CLASS	WIND SPEED CLASS	WIND SPEED (METERS/SEC)	WIND SECTOR	WIND DIRECTION	AMBIENT TEMPERATURE	HALF-LIFE POL. 1	HALF-LIFE POL. 2	INVERSION PENETRATION FACTOR	MIXING HEIGHT
1	DD	4	******	7	****** DEG	22.22 C	999.99 HR	6.00 HR	2.000	900.0 M

T.E.M. VERSION 8 - AREA SOURCE LIST - TEM SAMPLE RUN VERSION 8

NUMBER	X (KM)	Y (KM)	AREA SIZE (KM)	E1 (G/S)	E2 (G/S)

THE SUM OF THE AREA SOURCE EMISSION RATES IN THIS RUN IS .0000(G/S) FOR POLLUTANT 1 AND .0000(G/S) FOR POLLUTANT 2.

T.E.M. VERSION 8 - POINT SOURCE LIST - TEM SAMPLE RUN VERSION 8

NUMBER	X (KM)	Y (KM)	E1 (G/S)	E2 (G/S)	HT (M)	DIAM (M)	VEL (M/S)	TEMP (K)	IDENTIFICATION
1	310.00	3000.00	20.0000	80.0000	50.00	1.000	15.000	473.150	STACK 1
2	320.00	3002.00	10.0000	40.0000	25.00	.750	20.000	423.150	STACK 2

THE SUM OF THE POINT SOURCE EMISSION RATES IN THIS RUN IS 30.00(G/S) FOR POLLUTANT 1 AND 120.00(G/S) FOR POLLUTANT 2.

T.E.M. VERSION 6 - TEM SAMPLE RUN VERSION 6

SCENARIO 1 POINT SOURCE PLUME RISE CALCULATIONS. MIXING HEIGHT = 900.00 M. IF MAX. HT. > 1800.0 M, SOURCE IS NEGLECTED.

NUMBER	X (KM)	Y (KM)	E1 (G/S)	E2 (G/S)	HT (M)	DIAM (M)	VEL (M/S)	TEMP (K)	DOMINANT INFLUENCE	MAX EFF SOURCE HT (M)
1	310.00	3000.00	20.00	80.00	50.00	1.000	15.000	473.15	BUOYANCY DOWNWASH	64.1
2	320.00	3002.00	10.00	40.00	25.00	.750	20.000	423.15	BUOYANCY	36.3

SECTION 1 OF 1, SCENARIO 1 TEM SAMPLE RUN VERSION 8 T.E.M. VERSION 8
STABILITY=DD, WIND SPD= 6.93 M/S, WIND DIR=135.00 DEG, MIXING HT= 900.0 M, AVERAGING TIME= 3 HR. POLLUTANT 1, PARTICULATE
UNCALIBRATED CONCENTRATIONS - MICROGRAMS PER CUBIC METER

	300.00	302.00	304.00	306.00	308.00	310.00	312.00	314.00	316.00	318.00	320.00	322.00	324.00	
3024.00	0	0	0	0	0	0	0	0	0	0	0	0	0	3024.00
3023.00	0	0	0	0	0	0	0	0	0	0	0	0	0	3023.00
3022.00	0	0	0	0	0	0	0	0	0	0	0	0	0	3022.00
3021.00	0	1	0	0	0	0	0	0	0	0	0	0	0	3021.00
3020.00	0	1	1	1	1	0	0	0	0	0	0	0	0	3020.00
3019.00	0	0	1	1	1	1	0	0	0	0	0	0	0	3019.00
3018.00	0	0	1	1	1	1	1	0	0	0	0	0	0	3018.00
3017.00	0	0	0	1	1	1	1	1	1	0	0	0	0	3017.00
3016.00	0	0	0	0	1	1	1	1	1	1	0	0	0	3016.00
3015.00	1	0	0	0	1	1	1	1	1	1	1	0	0	3015.00
3014.00	1	0	0	0	0	1	1	1	1	1	1	1	0	3014.00
3013.00	1	1	0	0	0	0	1	1	1	1	1	1	1	3013.00
3012.00	1	1	1	0	0	0	0	1	1	1	1	1	1	3012.00
3011.00	2	1	1	1	0	0	0	0	1	1	1	1	1	3011.00
3010.00	2	2	2	1	0	0	0	0	0	1	1	1	2	3010.00
3009.00	2	2	2	2	1	0	0	0	0	0	1	1	2	3009.00
3008.00	2	2	3	3	2	1	0	0	0	0	0	1	1	3008.00
3007.00	1	2	3	3	3	2	1	0	0	0	0	0	1	3007.00
3006.00	0	1	2	3	4	3	2	0	0	0	0	0	0	3006.00
3005.00	0	0	1	2	3	5	4	1	0	0	0	0	0	3005.00
3004.00	0	0	0	1	2	4	6	5	1	0	0	0	0	3004.00
3003.00	0	0	0	0	0	1	5	9	4	0	0	0	0	3003.00
3002.00	0	0	0	0	0	0	1	4	14	2	0	0	0	3002.00
3001.00	0	0	0	0	0	0	0	0	2	17	0	0	0	3001.00
3000.00	0	0	0	0	0	0	0	0	0	0	0	0	0	3000.00
	300.00	302.00	304.00	306.00	308.00	310.00	312.00	314.00	316.00	318.00	320.00	322.00	324.00	

SECTION 1 OF 1, SCENARIO 1 TEM SAMPLE RUN VERSION 8 T.E.M. VERSION 8
STABILITY=DD, WIND SPD= 6.93 M/S, WIND DIR=135.00 DEG, MIXING HT= 900.0 M, AVERAGING TIME= 3 HR. POLLUTANT 2, SO2
UNCALIBRATED CONCENTRATIONS - MICROGRAMS PER CUBIC METER

	300.00	302.00	304.00	306.00	308.00	310.00	312.00	314.00	316.00	318.00	320.00	322.00	324.00	
3024.00	1 1 1 1 1 1 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3024.00
3023.00	2 2 1 1 1 1 1	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3023.00
3022.00	2 2 2 1 1 1 1	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3022.00
3021.00	2 2 2 2 2 1 1	1 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3021.00
3020.00	2 2 2 2 2 2 1	1 1 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3020.00
3019.00	2 2 2 2 2 2 2	1 1 1 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3019.00
3018.00	2 2 2 2 2 2 2	2 1 1 1 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3018.00
3017.00	2 2 2 2 2 3 3	2 2 1 1 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3017.00
3016.00	2 1 2 2 2 3 3	3 3 2 1 1 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3016.00
3015.00	2 1 1 2 2 2 3	3 3 3 2 1 1	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3015.00
3014.00	3 2 1 1 2 2 3	3 4 4 3 2 1	1 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3014.00
3013.00	4 3 2 1 1 2 2	3 4 4 4 3 2	1 1 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3013.00
3012.00	5 4 2 1 1 1 1	2 3 4 5 5 4	2 1 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3012.00
3011.00	6 5 4 2 1 1 1	1 2 3 5 5 5	4 2 1 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3011.00
3010.00	8 7 6 4 2 1 1	1 1 2 4 5 6	6 4 2 1 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3010.00
3009.00	7 9 8 7 4 1 0	0 1 1 2 4 6	8 7 5 2 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3009.00
3008.00	6 8 10 10 7 3 1	0 0 1 1 2 4	7 10 9 4 1 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3008.00
3007.00	4 7 10 12 11 7 2	0 0 0 0 1 2	5 9 13 11 4 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3007.00
3006.00	2 4 7 11 15 13 7	1 0 0 0 0 1	2 4 11 18 13 2	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3006.00
3005.00	1 1 3 7 13 19 16	5 0 0 0 0 0	0 1 4 13 27 14	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3005.00
3004.00	0 0 1 2 7 16 25	18 3 0 0 0 0	0 0 0 0 2 14	48 7 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3004.00
3003.00	0 0 0 0 1 5 18	36 18 0 0 0 0	0 0 0 0 0 0	7 108 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3003.00
3002.00	0 0 0 0 0 0 3	18 55 6 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3002.00
3001.00	0 0 0 0 0 0 0	0 6 69 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3001.00
3000.00	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3000.00
	300.00	302.00	304.00	306.00	308.00	310.00	312.00	314.00	316.00	318.00	320.00	322.00	324.00	

TEXAS EPISODIC MODEL, VERSION 8: HIGHEST PREDICTED CONCENTRATIONS OF EACH POLLUTANT FOR EACH SCENARIO

TEM SAMPLE RUN VERSION 8

UNCALIBRATED CONCENTRATIONS IN MICROGRAMS PER CUBIC METER - CALIBRATION, POLLUTANT 1: MULT.BY TEN
CALIBRATION, POLLUTANT 2: MULT. BY TEN

SCENARIO NUMBER	WIND DIRECTION SUB-SCENARIO	RECEPTOR COORDINATES X (KM)	Y (KM)	POLLUTANT 1 (PARTICULATE) UNCALIBRATED CONCENTRATION	CALIBRATED CONCENTRATION	RECEPTOR COORDINATES X (KM)	Y(KM)	POLLUTANT 2 (SO2 UNCALIBRATED CONCENTRATION	) CALIBRATED CONCENTRATION
1	1	319.000	3003.000	27.2694	272.6940	319.000	3003.000	108.2833	1082.8329

DATA IGNORED - IN CONTROL MODE

JXQT U.ABS13

PTPLU (VERSION 80364)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 3. MODELS PROPOSED SEP80 FOR 81 GUIDELINES.
IN UNAMAP (VERSION 4) DEC 80
SOURCE: FILE 13 ON UNAMAP MAGNETIC TAPE FROM NTIS.
PTPLU EXAMPLE RUN - INPUT BY T. PIERCE 12/29/80

>>>INPUT PARAMETERS<<<

SOURCE		***OPTIONS***	***METEOROLOGY***	
EMISSION RATE =	1000.00 (G/SEC)	IF = 1, USE OPTION	AMBIENT AIR TEMPERATURE =	278.00 (K)
STACK HEIGHT =	200.00 (M)	IF = 0, IGNORE OPTION	ANEMOMETER HEIGHT =	7.00 (M)
STACK DIAM. =	5.00 (M)	IOPT(1) = 0 (GRAD PLUME RISE)	MIXING HEIGHT =	1500.00 (M)
EXIT VELOCITY =	20.00 (M/SEC)	IOPT(2) = 1 (STACK DOWNWASH)	WIND PROFILE EXPONENTS =	A: .07, B: .07, C: .10
STK GAS TEMP =	450.00 (K)	IOPT(3) = 1 (BUOY. INDUCED DISP.)		D: .15, E: .35, F: .55
			RECEPTOR HEIGHT =	2.00 (M)

>>>CALCULATED PARAMETERS<<<

VOLUMETRIC FLOW = 392.70 (M**3/SEC) BUOYANCY FLUX PARAMETER = 468.52 (M**4/SEC**3)

ANALYSIS OF CONCENTRATION AS A FUNCTION OF STABILITY AND WIND SPEED

					****EXTRAPOLATED WINDS****			
STABILITY	WIND SPEED (M/SEC)	MAX CONC (G/CU M)	DIST OF MAX (KM)	EFFECT HT (M)	WIND SPEED (M/SEC)	MAX CONC (G/CU M)	DIST OF MAX (KM)	EFFECT HT (M)
1	.50	.0000	.000	3299.5(2)	.63	.0000	.000	2651.2(2)
1	.80	.0000	.000	2137.2(2)	1.01	.0000	.000	1732.0(2)
1	1.00	.0000	.000	1749.7(2)	1.26	4.2626-004	1.693	1425.6(2)
1	1.50	3.9137-004	1.664	1233.2(2)	1.90	3.4502-004	1.582	1017.1(2)
1	2.00	3.3549-004	1.551	974.9(2)	2.53	3.1034-004	1.280	812.8(2)
1	2.50	3.1038-004	1.294	819.9(2)	3.16	3.2021-004	1.130	690.2(2)
1	3.00	3.1729-004	1.154	716.6(2)	3.79	3.2851-004	1.059	608.5(2)

					****EXTRAPOLATED WINDS****			
STABILITY	WIND SPEED (M/SEC)	MAX CONC (G/CU M)	DIST OF MAX (KM)	EFFECT HT (M)	WIND SPEED (M/SEC)	MAX CONC (G/CU M)	DIST OF MAX (KM)	EFFECT HT (M)
2	.50	.0000	.000	3299.5(2)	.63	.0000	.000	2651.2(2)
2	.80	.0000	.000	2137.2(2)	1.01	.0000	.000	1732.0(2)
2	1.00	.0000	.000	1749.7(2)	1.26	1.7943-004	7.999	1425.6(2)
2	1.50	1.5562-004	7.764	1233.2(2)	1.90	1.3483-004	6.624	1017.1(2)
2	2.00	1.3268-004	6.170	974.9(2)	2.53	1.3700-004	4.632	812.8(2)
2	2.50	1.3650-004	4.678	819.9(2)	3.16	1.4700-004	3.956	690.2(2)
2	3.00	1.4472-004	4.092	716.6(2)	3.79	1.5400-004	3.536	608.5(2)
2	4.00	1.5571-004	3.427	587.4(2)	5.06	1.6120-004	3.006	506.4(2)
2	5.00	1.6102-004	3.025	509.9(2)	6.32	1.6291-004	2.684	445.1(2)

					****EXTRAPOLATED WINDS****			
STABILITY	WIND SPEED (M/SEC)	MAX CONC (G/CU M)	DIST OF MAX (KM)	EFFECT HT (M)	WIND SPEED (M/SEC)	MAX CONC (G/CU M)	DIST OF MAX (KM)	EFFECT HT (M)
3	2.00	8.2078-005	14.656	974.9(2)	2.80	9.2653-005	10.079	754.2(2)
3	2.50	8.8390-005	11.076	819.9(2)	3.50	1.0128-004	8.524	643.3(2)
3	3.00	9.5617-005	9.543	716.6(2)	4.19	1.0710-004	7.507	569.4(2)
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	5.00	1.1146-004	6.696	509.9(2)	6.99	1.1555-004	5.500	421.7(2)
3	7.00	1.1556-004	5.496	421.4(2)	9.79	1.1345-004	4.647	358.3(2)
3	10.00	1.1311-004	4.602	355.0(2)	13.98	1.0538-004	3.999	310.1(2)
3	12.00	1.0928-004	4.255	329.1(2)	16.78	1.0068-004	3.717	289.3(2)

3	15.00	1.0373-004	3.884	301.6(2)	20.97	9.3312-005	3.434	268.4(2)

					****EXTRAPOLATED WINDS****			
STABILITY	WIND SPEED (M/SEC)	MAX CONC (G/CU M)	DIST OF MAX (KM)	EFFECT HT (M)	WIND SPEED (M/SEC)	MAX CONC (G/CU M)	DIST OF MAX (KM)	EFFECT HT (M)
4	.50	.0000	.000	3299.5(2)	.83	.0000	.000	2074.6(2)
4	.80	.0000	.000	2137.2(2)	1.32	9.9990+009	999.999(3)	1371.6(2)
4	1.00	.0000	.000	1749.7(2)	1.65	9.9990+009	999.999(3)	1137.3(2)
4	1.50	9.9990+009	999.999(3)	1233.2(2)	2.48	1.6112-005	92.700	824.9(2)
4	2.00	9.9990+009	999.999(3)	974.9(2)	3.31	2.0808-005	63.511	668.6(2)
4	2.50	1.6235-005	91.689	819.9(2)	4.13	2.4628-005	48.562	574.9(2)
4	3.00	1.9170-005	71.909	716.6(2)	4.96	2.7673-005	39.600	512.4(2)
4	4.00	2.4067-005	50.442	587.4(2)	6.61	3.1917-005	29.999	434.3(2)
4	5.00	2.7801-005	39.262	509.9(2)	8.27	3.3882-005	26.222	387.5(2)
4	7.00	3.2542-005	29.999	421.4(2)	11.57	3.4949-005	20.602	333.9(2)
4	10.00	3.4767-005	22.754	355.0(2)	16.53	3.4511-005	16.403	290.8(2)
4	12.00	3.4927-005	20.121	329.1(2)	19.84	3.3640-005	14.772	273.2(2)
4	15.00	3.4718-005	17.434	301.6(2)	24.80	3.1826-005	13.206	255.5(2)
4	20.00	3.3589-005	14.707	272.5(2)	33.07	2.8586-005	11.699	237.9(2)

					****EXTRAPOLATED WINDS****			
STABILITY	WIND SPEED (M/SEC)	MAX CONC (G/CU M)	DIST OF MAX (KM)	EFFECT HT (M)	WIND SPEED (M/SEC)	MAX CONC (G/CU M)	DIST OF MAX (KM)	EFFECT HT (M)
5	2.00	3.9085-005	88.948(1)	380.0(2)	6.47	2.2232-005	54.632	321.8(2)
5	2.50	3.5456-005	80.409(1)	367.1(2)	8.08	1.9687-005	50.351	313.0(2)
5	3.00	3.2630-005	74.290	357.3(2)	9.70	1.7767-005	47.220	306.4(2)
5	4.00	2.8441-005	65.882	342.9(2)	12.93	1.5021-005	42.870	296.6(2)
5	5.00	2.5432-005	60.260	332.7(2)	16.16	1.3611-005	39.999	287.1(2)

					****EXTRAPOLATED WINDS****			
STABILITY	WIND SPEED (M/SEC)	MAX CONC (G/CU M)	DIST OF MAX (KM)	EFFECT HT (M)	WIND SPEED (M/SEC)	MAX CONC (G/CU M)	DIST OF MAX (KM)	EFFECT HT (M)
6	2.00	9.9990+009	999.999(3)	349.4(2)	12.64	9.9990+009	999.999(3)	280.8(2)
6	2.50	9.9990+009	999.999(3)	338.7(2)	15.80	9.9990+009	999.999(3)	272.7(2)
6	3.00	9.9990+009	999.999(3)	330.5(2)	18.96	9.9990+009	999.999(3)	266.1(2)
6	4.00	9.9990+009	999.999(3)	318.6(2)	25.28	9.9990+009	999.999(3)	257.0(2)
6	5.00	9.9990+009	999.999(3)	310.1(2)	31.60	9.9990+009	999.999(3)	250.9(2)

(1) THE DISTANCE TO THE POINT OF MAXIMUM CONCENTRATION IS SO GREAT THAT THE SAME STABILITY IS NOT LIKELY TO PERSIST LONG ENOUGH FOR THE PLUME TO TRAVEL THIS FAR.

(2) THE PLUME IS OF SUFFICIENT HEIGHT THAT EXTREME CAUTION SHOULD BE USED IN INTERPRETING THIS COMPUTATION AS THIS STABILITY TYPE MAY NOT EXIST TO THIS HEIGHT. ALSO WIND SPEED VARIATIONS WITH HEIGHT MAY EXERT A DOMINATING INFLUENCE.

(3) NO COMPUTATION WAS ATTEMPTED FOR THIS HEIGHT AS THE POINT OF MAXIMUM CONCENTRATION IS GREATER THAN 100 KILOMETERS FROM THE SOURCE.

$XQT U.ABS14

MPTER (VERSION 80345)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 3. MODELS PROPOSED SEP80 FOR 81 GUIDELINES.
IN UNAMAP (VERSION 4) DEC 80
SOURCE: FILE 14 ON UNAMAP MAGNETIC TAPE FROM NTIS.

MPTER - VERSION 80345
MPTER RUN DEPICTING CONCENTRATIONS FOR VARYING TERRAIN HEIGHTS
AND RECEPTORS WITH VARYING HEIGHTS ABOVE GROUND LEVEL. TSP CONCENTRATIONS.
PROGRAMMER: TOM PIERCE 5 DECEMBER 1980

GENERAL INPUT INFORMATION

THIS RUN OF MPTER-VERSION 80345 IS FOR THE POLLUTANT PART FOR 1 1-HOUR PERIODS.
CONCENTRATION ESTIMATES BEGIN ON HOUR- 1, JULIAN DAY- 1, YEAR-1978.
A FACTOR OF 1.0000000 HAS BEEN SPECIFIED TO CONVERT USER LENGTH UNITS TO KILOMETERS.
1 SIGNIFICANT SOURCES ARE TO BE CONSIDERED.
A HALF-LIFE OF 14400.00 (SECONDS) HAS BEEN ASSUMED BY THE USER.
A FACTOR OF 1.0000000 HAS BEEN SPECIFIED TO CONVERT USER HEIGHT UNITS TO METERS.

OPTION	OPTION LIST	OPTION SPECIFICATION : 0= IGNORE OPTION 1= USE OPTION
	TECHNICAL OPTIONS	
1	TERRAIN ADJUSTMENTS	1
2	DO NOT INCLUDE STACK DOWNWASH CALCULATIONS	1
3	DO NOT INCLUDE GRADUAL PLUME RISE CALCULATIONS	1
4	CALCULATE INITIAL PLUME SIZE	0
	INPUT OPTIONS	
5	READ MET DATA FROM CARDS	1
6	READ HOURLY EMISSIONS	0
7	SPECIFY SIGNIFICANT SOURCES	0
8	READ RADIAL DISTANCES TO GENERATE RECEPTORS	0
	PRINTED OUTPUT OPTIONS	
9	DELETE EMISSIONS WITH HEIGHT TABLE	1
10	DELETE MET DATA SUMMARY FOR AVG PERIOD	1
11	DELETE HOURLY CONTRIBUTIONS	1
12	DELETE MET DATA ON HOURLY CONTRIBUTIONS	0
13	DELETE FINAL PLUME RISE CALC ON HRLY CONTRIBUTIONS	0
14	DELETE HOURLY SUMMARY	0
15	DELETE MET DATA ON HRLY SUMMARY	0
16	DELETE FINAL PLUME RISE CALC ON HRLY SUMMARY	0
17	DELETE AVG-PERIOD CONTRIBUTIONS	1
18	DELETE AVERAGING PERIOD SUMMARY	1
19	DELETE AVG CONCENTRATIONS AND HI-5 TABLES	1
	OTHER CONTROL AND OUTPUT OPTIONS	
20	RUN IS PART OF A SEGMENTED RUN	0
21	WRITE PARTIAL CONC TO DISK OR TAPE	0
22	WRITE HOURLY CONC TO DISK OR TAPE	0
23	WRITE AVG-PERIOD CONC TO DISK OR TAPE	0
24	PUNCH AVG-PERIOD CONC ONTO CARDS	0

ANEMOMETER HEIGHT IS: 10.00
EXPONENTS FOR POWER- LAW WIND INCREASE WITH HEIGHT ARE: .07, .07, .10, .15, .35, .55
TERRAIN ADJUSTMENTS ARE: 1.000,1.000,1.000,1.000, .000, .000

POINT SOURCE INFORMATION

SOURCE	EAST COORD (USER UNITS)	NORTH COORD (USER UNITS)	SO2(G/SEC) EMISSIONS	PART(G/SEC) EMISSIONS	STACK HT(M)	STACK TEMP(K)	STACK DIAM(M)	STACK VEL(M/SEC)	POTEN. (MICRO G/M**3) IMPACT	EFF HT(M)	GRD-LVL ELEV USER HT UNITS	BUOY FLUX F M**4/S**3
1 SOURCE #1	00	.00	.00	1000.00	50.0	415.0	2.0	20.0	1500.05	196.96	100.00	57.66

SIGNIFICANT PART POINT SOURCES

RANK	CHI-MAX (MICROGRAMS/M**3)	SOURCE NO.
1	1500.05	1

ADDITIONAL INFORMATION ON SOURCES.

EMISSION INFORMATION FOR 1 (NPT) POINT SOURCES HAS BEEN INPUT
1 SIGNIFICANT POINT SOURCES(NSIGP) ARE TO BE USED FOR THIS RUN
THE ORDER OF SIGNIFICANCE(IMPS) FOR 25 OR LESS POINT SOURCES USED IN THIS RUN AS LISTED BY POINT SOURCE NUMBER:
1

RECEPTOR INFORMATION

RECEPTOR	IDENTIFICATION	EAST COORD (USER UNITS)	NORTH COORD (USER UNITS)	ABV LOCAL GRD LVL (METERS)	RECEPTOR HT	RECEPTOR GROUND LEVEL ELEVATION (USER HT UNITS)
1 *	1KM GRD	1.000	.000	.0		80.0
2 *	1 50M	1.000	.000	50.0		80.0
3 *	1 100M	1.000	.000	100.0		80.0
4 *	1 150M	1.000	.000	150.0		80.0
5 *	1 200M	1.000	.000	200.0		80.0
6	2KM GRD	2.000	.000	.0		120.0
7	2 50M	2.000	.000	50.0		120.0
8	2 100M	2.000	.000	100.0		120.0
9	2 150M	2.000	.000	150.0		120.0
10	2 200M	2.000	.000	200.0		120.0
11	3KM GRD	3.000	.000	.0		140.0
12	3KM 50M	3.000	.000	50.0		140.0
13	3 100M	3.000	.000	100.0		140.0
14	3 150M	3.000	.000	150.0		140.0
15	3 200M	3.000	.000	200.0		140.0
16**	4KM GRD	4.000	.000	.0		160.0
17**	4KM 50M	4.000	.000	50.0		160.0
18**	4 100M	4.000	.000	100.0		160.0
19**	4 150M	4.000	.000	150.0		160.0
20**	4 200M	4.000	.000	200.0		160.0

* ONE ASTERISK INDICATES THAT THE ASSOCIATED RECEPTOR(S) HAVE A GROUND LEVEL ELEVATION LOWER THAN THE LOWEST SOURCE BASE ELEVATION. CAUTION SHOULD BE USED IN INTERPRETING CONCENTRATIONS FOR THESE RECEPTORS.
** TWO ASTERISKS INDICATE THAT THE ASSOCIATED RECEPTOR(S) HAVE GROUND LEVEL ELEVATIONS ABOVE THE LOWEST STACK TOP. CONSEQUENTLY NO CALCULATIONS WILL BE PERFORMED WITH THIS RECEPTOR. A SERIES OF ASTERISKS WILL INSTEAD APPEAR IN THE OUTPUT.

MPTER RUN DEPICTING CONCENTRATIONS FOR VARYING TERRAIN HEIGHTS
AND RECEPTORS WITH VARYING HEIGHTS ABOVE GROUND LEVEL. TSP CONCENTRATIONS.
PROGRAMMER: TOM PIERCE 5 DECEMBER 1980

PART SUMMARY CONCENTRATION TABLE(MICROGRAMS/M**3) 78/ 1 : HOUR 1

HOUR	THETA (DEG)	SPEED (M/S)	MIXING HEIGHT(M)	TEMP (K)	STABILITY CLASS
1	270.00	2.00	2000.00	283.00	3

	1	2	3	4	5	6	7	8	9	10
FINAL HT (M)	246.76									
DIST FIN HT (KM)	.622									

RECEPTOR NO.	NAME	EAST COORD	NORTH COORD	RECEPTOR HT ABV GRD (M)	RECEPTOR GRD-LVL ELEV (USER HT UNITS)	TOTAL FROM SIGNIF POINT SOURCES	TOTAL FROM ALL SOURCES	CONCENTRATION RANK
1 *	1KM GRD	1.00	.00	.0	80.0	6.1159	6.1159	20
2 *	1 50M	1.00	.00	50.0	80.0	59.4520	59.4520	19
3 *	1 100M	1.00	.00	100.0	80.0	590.5824	590.5824	17
4 *	1 150M	1.00	.00	150.0	80.0	3009.8202	3009.8202	7
5 *	1 200M	1.00	.00	200.0	80.0	7858.8595	7858.8595	6
6	2KM GRD	2.00	.00	.0	120.0	589.6718	589.6718	18
7	2 50M	2.00	.00	50.0	120.0	785.3207	785.3207	16
8	2 100M	2.00	.00	100.0	120.0	1328.2233	1328.2233	11
9	2 150M	2.00	.00	150.0	120.0	2058.2210	2058.2210	9
10	2 200M	2.00	.00	200.0	120.0	2687.7896	2687.7896	8
11	3KM GRD	3.00	.00	.0	140.0	918.0006	918.0006	15
12	3KM 50M	3.00	.00	50.0	140.0	965.0574	965.0574	14
13	3 100M	3.00	.00	100.0	140.0	1087.7530	1087.7530	13
14	3 150M	3.00	.00	150.0	140.0	1237.3956	1237.3956	12
15	3 200M	3.00	.00	200.0	140.0	1352.9459	1352.9459	10
16**	4KM GRD	4.00	.00	.0	160.0	.0000**********		1
17**	4KM 50M	4.00	.00	50.0	160.0	.0000**********		2
18**	4 100M	4.00	.00	100.0	160.0	.0000**********		3
19**	4 150M	4.00	.00	150.0	160.0	.0000**********		4
20**	4 200M	4.00	.00	200.0	160.0	.0000**********		5

$XQT U.ABS15

HIWAY2 (VERSION 80346)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 3. MODELS PROPOSED SEP80 FOR 81 GUIDELINES.
IN UNAMAP (VERSION 4) DEC 80
SOURCE: FILE 15 ON UNAMAP MAGNETIC TAPE FROM NTIS.

EXAMPLE OF BATCH VERSION OF HIWAY 2

HIWAY-2 VERSION: 80346
WIND DIRECTION IS 42. DEGREES
WIND SPEED IS 3.7 METERS/SEC
STABILITY CLASS IS 3
HEIGHT OF LIMITING LID IS 1000.0 METERS
THE SCALE OF THE COORDINATE AXES IS 1.0000 KM/USER UNIT.

ENDPOINTS OF LINE SOURCE 1
2.500, .023 AND -2.500, .023
EMISSION HEIGHT IS .000 METERS
EMISSION RATE (GRAMS/SECOND*METER) OF 4 LANE(S)
.112-001 .103-001 .106-001 .156-001
WIDTH OF AT-GRADE HIGHWAY IS 46.0 M
WIDTH OF CENTER STRIP IS 30.0 M

RECEPTOR LOCATION X	Y	HEIGHT Z(M)	CONCENTRATION UGM/METER**3	PPM *
.0000	-.0010	.0000	3258.	2.834
.0000	-.0050	.0000	3137.	2.730
.0000	-.0100	.0000	2634.	2.292
.0000	-.0300	.0000	1546.	1.345
.0000	-.0500	.0000	1106.	.962

* PPM CONCENTRATIONS CORRECT FOR CARBON MONOXIDE ONLY.

ENDPOINTS OF LINE SOURCE 2
2.500, .025 AND -2.500, .025
EMISSION HEIGHT IS .000 METERS
EMISSION RATE (GRAMS/SECOND*METER) OF 4 LANE(S)
.112-001 .103-001 .106-001 .156-001
WIDTH OF TOP OF CUT SECTION IS 50.000 M

RECEPTOR LOCATION X	Y	HEIGHT Z(M)	CONCENTRATION UGM/METER**3	PPM *
.0000	-.0010	.0000	3023.	2.630
.0000	-.0050	.0000	2740.	2.384
.0000	-.0100	.0000	2343.	2.039
.0000	-.0300	.0000	1465.	1.274
.0000	-.0500	.0000	1076.	.937

* PPM CONCENTRATIONS CORRECT FOR CARBON MONOXIDE ONLY.

TOTAL CONCENTRATION FROM ALL 2 LINE SOURCE(S)

RECEPTOR LOCATION X	Y	HEIGHT Z(M)	CONCENTRATION UGM/METER**3	PPM *
.0000	-.0010	.0000	6281.	5.464
.0000	-.0050	.0000	5878.	5.114
.0000	-.0100	.0000	4977.	4.330
.0000	-.0300	.0000	3011.	2.619
.0000	-.0500	.0000	2183.	1.899

* PPM CONCENTRATIONS CORRECT FOR CARBON MONOXIDE ONLY.

$XQT U.ABS17

ISCLT (VERSION 88340)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 3. MODELS PROPOSED SEP80 FOR 81 GUIDELINES.
IN UNAMAP (VERSION 6) DEC 80
SOURCE: FILE 17 ON UNAMAP MAGNETIC TAPE FROM NTIS.

**** ISCLT ********** HYPOTHETICAL POTASH PROCESSING PLANT ******** PAGE 1 ****

- ISCLT INPUT DATA -

NUMBER OF SOURCES = 16
NUMBER OF X AXIS GRID SYSTEM POINTS = 9
NUMBER OF Y AXIS GRID SYSTEM POINTS = 19
NUMBER OF SPECIAL POINTS = 1
NUMBER OF SEASONS = 1
NUMBER OF WIND SPEED CLASSES = 6
NUMBER OF STABILITY CLASSES = 6
NUMBER OF WIND DIRECTION CLASSES = 16
FILE NUMBER OF DATA FILE USED FOR REPORTS = 1
THE PROGRAM IS RUN IN RURAL MODE
CONCENTRATION (DEPOSITION) UNITS CONVERSION FACTOR = .10000000+007
ACCELERATION OF GRAVITY (METERS/SEC**2) = 9.800
HEIGHT OF MEASUREMENT OF WIND SPEED (METERS) = 10.000
ENTRAINMENT PARAMETER FOR UNSTABLE CONDITIONS = .600
ENTRAINMENT PARAMETER FOR STABLE CONDITIONS = .600
CORRECTION ANGLE FOR GRID SYSTEM VERSUS DIRECTION DATA NORTH (DEGREES) = .000
DECAY COEFFICIENT = .00000000
PROGRAM OPTION SWITCHES = 1, 1, 2, 0, 1, 3, 2, 3, 3, 2, 2, 0, 0, 0, 0, 0, 0, 1, 0,
SOURCES USED TO FORM SOURCE COMBINATION 1 ARE - 1,
SOURCES USED TO FORM SOURCE COMBINATION 2 ARE - 2, -16,
DISTANCE X AXIS GRID SYSTEM POINTS (METERS)= .00, 200.00, 400.00, 600.00, 800.00, 1000.00,
1250.00, 1500.00, 2000.00,
RANGE X SPECIAL DISCRETE POINTS (METERS)= 2100.00,
DISTANCE Y AXIS GRID SYSTEM POINTS (METERS)= -2000.00, -2000.00, -1500.00, -1250.00, -1000.00, -800.00,
-600.00, -400.00, -200.00, .00, 200.00, 400.00, 600.00, 800.00, 1000.00, 1250.00,
1500.00, 2000.00, 3000.00,
AZIMUTH BEARING Y SPECIAL DISCRETE POINTS (DEGREES)= 14.00,

- AMBIENT AIR TEMPERATURE (DEGREES KELVIN) -

	STABILITY CATEGORY 1	STABILITY CATEGORY 2	STABILITY CATEGORY 3	STABILITY CATEGORY 4	STABILITY CATEGORY 5	STABILITY CATEGORY 6
SEASON 1	287.2000	287.2000	283.2000	280.8000	279.1000	279.1000

- MIXING LAYER HEIGHT (METERS) -

SEASON 1

	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY 1	.173000+004	.173000+004	.173000+004	.173000+004	.173000+004	.173000+004
STABILITY CATEGORY 2	.173000+004	.173000+004	.173000+004	.173000+004	.173000+004	.173000+004
STABILITY CATEGORY 3	.960000+003	.102500+004	.123500+004	.129500+004	.129500+004	.129500+004
STABILITY CATEGORY 4	.320000+003	.500000+003	.840000+003	.840000+003	.840000+003	.840000+003
STABILITY CATEGORY 5	.100000+005	.100000+005	.100000+005	.100000+005	.100000+005	.100000+005
STABILITY CATEGORY 6	.100000+005	.100000+005	.100000+005	.100000+005	.100000+005	.100000+005

- ISCLT INPUT DATA (CONT.) -

- FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY -

SEASON 1

STABILITY CATEGORY 1

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (.7500MPS)	WIND SPEED CATEGORY 2 (2.5000MPS)	WIND SPEED CATEGORY 3 (4.3000MPS)	WIND SPEED CATEGORY 4 (6.8000MPS)	WIND SPEED CATEGORY 5 (9.5000MPS)	WIND SPEED CATEGORY 6 (12.5000MPS)
.000	.00016950	.00008560	.00000000	.00000000	.00000000	.00000000
22.500	.00012830	.00019980	.00000000	.00000000	.00000000	.00000000
45.000	.00009160	.00019980	.00000000	.00000000	.00000000	.00000000
67.500	.00010760	.00025690	.00000000	.00000000	.00000000	.00000000
90.000	.00031190	.00059950	.00000000	.00000000	.00000000	.00000000
112.500	.00036110	.00051390	.00000000	.00000000	.00000000	.00000000
135.000	.00038650	.00034260	.00000000	.00000000	.00000000	.00000000
157.500	.00069530	.00079930	.00000000	.00000000	.00000000	.00000000
180.000	.00067470	.00085640	.00000000	.00000000	.00000000	.00000000
202.500	.00055120	.00054240	.00000000	.00000000	.00000000	.00000000
225.000	.00019410	.00025690	.00000000	.00000000	.00000000	.00000000
247.500	.00011550	.00028550	.00000000	.00000000	.00000000	.00000000
270.000	.00028990	.00025690	.00000000	.00000000	.00000000	.00000000
292.500	.00008390	.00017130	.00000000	.00000000	.00000000	.00000000
315.000	.00006020	.00008560	.00000000	.00000000	.00000000	.00000000
337.500	.00028200	.00022840	.00000000	.00000000	.00000000	.00000000

SEASON 1

STABILITY CATEGORY 2

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (.7500MPS)	WIND SPEED CATEGORY 2 (2.5000MPS)	WIND SPEED CATEGORY 3 (4.3000MPS)	WIND SPEED CATEGORY 4 (6.8000MPS)	WIND SPEED CATEGORY 5 (9.5000MPS)	WIND SPEED CATEGORY 6 (12.5000MPS)
.000	.00073530	.00077080	.00057100	.00000000	.00000000	.00000000
22.500	.00104880	.00108480	.00046530	.00000000	.00000000	.00000000
45.000	.00044440	.00068510	.00019980	.00000000	.00000000	.00000000
67.500	.00096290	.00148450	.00085640	.00000000	.00000000	.00000000
90.000	.00187750	.00279770	.00168430	.00000000	.00000000	.00000000
112.500	.00168920	.00279770	.00276910	.00000000	.00000000	.00000000
135.000	.00197700	.00316880	.00342570	.00000000	.00000000	.00000000
157.500	.00262380	.00399670	.00425361	.00000000	.00000000	.00000000
180.000	.00459181	.00422511	.00285480	.00000000	.00000000	.00000000
202.500	.00262740	.00308320	.00105630	.00000000	.00000000	.00000000
225.000	.00145670	.00108480	.00062810	.00000000	.00000000	.00000000
247.500	.00165270	.00211250	.00071370	.00000000	.00000000	.00000000
270.000	.00249990	.00211250	.00111340	.00000000	.00000000	.00000000
292.500	.00134250	.00119900	.00077080	.00000000	.00000000	.00000000
315.000	.00091510	.00068510	.00045680	.00000000	.00000000	.00000000
337.500	.00073250	.00074220	.00037110	.00000000	.00000000	.00000000

- ISCLT INPUT DATA (CONT.) -

- FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY -

SEASON 1

STABILITY CATEGORY 3

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (.7500MPS)	WIND SPEED CATEGORY 2 (2.5000MPS)	WIND SPEED CATEGORY 3 (4.3000MPS)	WIND SPEED CATEGORY 4 (6.8000MPS)	WIND SPEED CATEGORY 5 (9.5000MPS)	WIND SPEED CATEGORY 6 (12.5000MPS)
.000	.00046450	.00094210	.00125610	.00014270	.00002850	.00000000
22.500	.00069900	.00079930	.00151300	.00048530	.00014270	.00002850
45.000	.00026680	.00074220	.00094210	.00042820	.00002850	.00000000
67.500	.00053170	.00145590	.00157010	.00042820	.00005710	.00000000
90.000	.00068820	.00279770	.00585231	.00071370	.00008560	.00000000
112.500	.00069610	.00376830	.00696571	.00211250	.00014270	.00000000
135.000	.00058420	.00305460	.00756521	.00116880	.00017130	.00000000
157.500	.00060830	.00425361	.00810761	.00259780	.00019980	.00000000
180.000	.00117710	.00408231	.00511011	.00062810	.00011420	.00002850
202.500	.00077160	.00353990	.00245510	.00025690	.00011420	.00008560
225.000	.00060500	.00162720	.00202690	.00045680	.00008560	.00014270
247.500	.00082450	.00385390	.00288330	.00051390	.00017130	.00034260
270.000	.00141350	.00439641	.00596651	.00111340	.00028550	.00034260
292.500	.00085360	.00211250	.00339720	.00051390	.00025690	.00022840
315.000	.00035030	.00105630	.00134170	.00017130	.00005710	.00002850
337.500	.00065610	.00105630	.00094210	.00011420	.00005710	.00000000

SEASON 1

STABILITY CATEGORY 4

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (.7500MPS)	WIND SPEED CATEGORY 2 (2.5000MPS)	WIND SPEED CATEGORY 3 (4.3000MPS)	WIND SPEED CATEGORY 4 (6.8000MPS)	WIND SPEED CATEGORY 5 (9.5000MPS)	WIND SPEED CATEGORY 6 (12.5000MPS)
.000	.00095500	.00259780	.00790771	.01367442	.01127641	.01027721
22.500	.00068970	.00274060	.00887841	.01347452	.00807901	.00505301
45.000	.00039840	.00168430	.00659451	.00553831	.00205540	.00054240
67.500	.00084880	.00408231	.00862141	.00616631	.00114190	.00019980
90.000	.00198280	.00619491	.01490192	.01247542	.00194120	.00022840
112.500	.00133850	.00533841	.01661482	.01841332	.00322590	.00048530
135.000	.00071740	.00353990	.00907821	.01190441	.00171290	.00019980
157.500	.00098470	.00342570	.00659451	.00702281	.00119900	.00025690
180.000	.00100970	.00376830	.00468181	.00451051	.00125610	.00062810
202.500	.00057970	.00291190	.00214110	.00342570	.00131320	.00048530
225.000	.00049800	.00137030	.00225530	.00345430	.00199830	.00125610
247.500	.00055980	.00179850	.00505301	.00588081	.00285480	.00208400
270.000	.00122310	.00459621	.00913531	.01444482	.00790771	.00576671
292.500	.00069900	.00202690	.00742241	.01415972	.01061981	.00659451
315.000	.00053550	.00188420	.00511011	.00759371	.00294040	.00194120
337.500	.00074000	.00216960	.00653741	.00559541	.00262640	.00159870

**** ISCLT **********

HYPOTHETICAL POTASH PROCESSING PLANT

******** PAGE 4 ****

- ISCLT INPUT DATA (CONT.) -

- FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY -

SEASON 1

STABILITY CATEGORY 5

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (.7500MPS)	WIND SPEED CATEGORY 2 (2.5000MPS)	WIND SPEED CATEGORY 3 (4.3000MPS)	WIND SPEED CATEGORY 4 (6.8000MPS)	WIND SPEED CATEGORY 5 (9.5000MPS)	WIND SPEED CATEGORY 6 (12.5000MPS)
.000	.00000000	.00525281	.00950641	.00000000	.00000000	.00000000
22.500	.00000000	.00325440	.00767941	.00000000	.00000000	.00000000
45.000	.00000000	.00177000	.00570961	.00000000	.00000000	.00000000
67.500	.00000000	.00336860	.00759371	.00000000	.00000000	.00000000
90.000	.00000000	.00496731	.00970621	.00000000	.00000000	.00000000
112.500	.00000000	.00274060	.00562391	.00000000	.00000000	.00000000
135.000	.00000000	.00177000	.00274060	.00000000	.00000000	.00000000
157.500	.00000000	.00236950	.00182710	.00000000	.00000000	.00000000
180.000	.00000000	.00295510	.00157010	.00000000	.00000000	.00000000
202.500	.00000000	.00182710	.00131320	.00000000	.00000000	.00000000
225.000	.00000000	.00165580	.00199830	.00000000	.00000000	.00000000
247.500	.00000000	.00342570	.00553831	.00000000	.00000000	.00000000
270.000	.00000000	.00668021	.01116221	.00000000	.00000000	.00000000
292.500	.00000000	.00499591	.00702281	.00000000	.00000000	.00000000
315.000	.00000000	.00356850	.00630911	.00000000	.00000000	.00000000
337.500	.00000000	.00522421	.00899251	.00000000	.00000000	.00000000

SEASON 1

STABILITY CATEGORY 6

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (.7500MPS)	WIND SPEED CATEGORY 2 (2.5000MPS)	WIND SPEED CATEGORY 3 (4.3000MPS)	WIND SPEED CATEGORY 4 (6.8000MPS)	WIND SPEED CATEGORY 5 (9.5000MPS)	WIND SPEED CATEGORY 6 (12.5000MPS)
.000	.00684121	.00973481	.00000000	.00000000	.00000000	.00000000
22.500	.00373070	.00559541	.00000000	.00000000	.00000000	.00000000
45.000	.00247790	.00431071	.00000000	.00000000	.00000000	.00000000
67.500	.00283840	.00493881	.00000000	.00000000	.00000000	.00000000
90.000	.00475321	.00773641	.00000000	.00000000	.00000000	.00000000
112.500	.00306470	.00491021	.00000000	.00000000	.00000000	.00000000
135.000	.00320440	.00282620	.00000000	.00000000	.00000000	.00000000
157.500	.00356230	.00136950	.00000000	.00000000	.00000000	.00000000
180.000	.00470731	.00316880	.00000000	.00000000	.00000000	.00000000
202.500	.00486151	.00416801	.00000000	.00000000	.00000000	.00000000
225.000	.00296740	.00342570	.00000000	.00000000	.00000000	.00000000
247.500	.00590741	.00944931	.00000000	.00000000	.00000000	.00000000
270.000	.01170781	.02055443	.00000000	.00000000	.00000000	.00000000
292.500	.00742881	.01204721	.00000000	.00000000	.00000000	.00000000
315.000	.00629421	.00982041	.00000000	.00000000	.00000000	.00000000
337.500	.00761371	.01281802	.00000000	.00000000	.00000000	.00000000

- ISCLT INPUT DATA (CONT.) -

- VERTICAL POTENTIAL TEMPERATURE GRADIENT (DEGREES KELVIN/METER) -

	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY 1	.000000	.000000	.000000	.000000	.000000	.000000
STABILITY CATEGORY 2	.000000	.000000	.000000	.000000	.000000	.000000
STABILITY CATEGORY 3	.000000	.000000	.000000	.000000	.000000	.000000
STABILITY CATEGORY 4	.000000	.000000	.000000	.000000	.000000	.000000
STABILITY CATEGORY 5	.200000-001	.200000-001	.200000-001	.200000-001	.200000-001	.200000-001
STABILITY CATEGORY 6	.350000-001	.350000-001	.350000-001	.350000-001	.350000-001	.350000-001

- WIND PROFILE POWER LAW EXPONENTS -

	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY 1	.100000+000	.100000+000	.100000+000	.100000+000	.100000+000	.100000+000
STABILITY CATEGORY 2	.150000+000	.150000+000	.150000+000	.150000+000	.150000+000	.150000+000
STABILITY CATEGORY 3	.200000+000	.200000+000	.200000+000	.200000+000	.200000+000	.200000+000
STABILITY CATEGORY 4	.250000+000	.250000+000	.250000+000	.250000+000	.250000+000	.250000+000
STABILITY CATEGORY 5	.300000+000	.300000+000	.300000+000	.300000+000	.300000+000	.300000+000
STABILITY CATEGORY 6	.300000+000	.300000+000	.300000+000	.300000+000	.300000+000	.300000+000

- SOURCE INPUT DATA -

C A R D	T A P E	SOURCE NUMBER	SOURCE TYPE	X COORDINATE (M)	Y COORDINATE (M)	EMISSION HEIGHT (M)	BASE ELEVATION (M)	/ - SOURCE DETAILS DEPENDING ON TYPE -
X		1	AREA	-13.30	-13.30	10.00	.00	/ WIDTH OF AREA (M)= 26.60

- PARTICULATE CATEGORIES -

	1	2	3	4	5	6
FALL VELOCITY (MPS)	.0010	.0070	.0190	.0370	.0610	.0990
MASS FRACTION	.1000	.4000	.2800	.1200	.0600	.0400
REFLECTION COEFFICIENT	1.0000	.8200	.7200	.6500	.5900	.5000

- SOURCE STRENGTHS (GRAMS PER SEC PER SQUARE METER) -

- SEASON 1 -

SPEED CATEGORY	- STABILITY CATEGORIES - (1)	(2)	(3)	(4)	(5)	(6)
1	4.00000-001	3.00000-001	2.00000-001	1.00000-001	.00000	5.00000-002
2	5.00000-001	4.00000-001	3.00000-001	2.50000-001	2.00000-001	1.00000-001
3	.00000	5.00000-001	4.00000-001	5.00000-001	2.50000-001	.00000
4	.00000	.00000	5.00000-001	5.00000-001	.00000	.00000
5	.00000	.00000	7.00000-001	7.00000-001	.00000	.00000
6	.00000	.00000	1.00000+000	1.00000+000	.00000	.00000

WARNING - DISTANCE BETWEEN SOURCE 1 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED

X	2	VOLUME	20.00	.00	.00	.00	STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 4.70
							STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 1.00

- PARTICULATE CATEGORIES -

	1	2	3	4	5	6
FALL VELOCITY (MPS)	.0010	.0070	.0190	.0370	.0610	.0990
MASS FRACTION	.1000	.4000	.2800	.1200	.0600	.0400
REFLECTION COEFFICIENT	1.0000	.8200	.7200	.6500	.5900	.5000

- SOURCE STRENGTHS (GRAMS PER SEC) -

- SEASON 1 -

SPEED CATEGORY	- STABILITY CATEGORIES - (1)	(2)	(3)	(4)	(5)	(6)
1	1.30000-001	1.00000-001	8.00000-002	4.00000-002	.00000	2.00000-002
2	1.60000-001	1.30000-001	1.20000-001	1.00000-001	8.00000-002	5.00000-002
3	.00000	1.60000-001	1.40000-001	1.30000-001	1.00000-001	.00000
4	.00000	.00000	1.60000-001	1.60000-001	.00000	.00000
5	.00000	.00000	1.90000-001	1.90000-001	.00000	.00000
6	.00000	.00000	2.20000-001	2.20000-001	.00000	.00000

WARNING - DISTANCE BETWEEN SOURCE 2 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED

- SOURCE INPUT DATA -

C A R D	T A P E	SOURCE NUMBER	SOURCE TYPE	X COORDINATE (M)	Y COORDINATE (M)	EMISSION HEIGHT (M)	BASE ELEV-ATION (M)	/ - SOURCE DETAILS DEPENDING ON TYPE -
X		3	VOLUME	30.00	.00	2.60	.00	STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 4.70
								STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 1.00

- PARTICULATE CATEGORIES -

	1	2	3	4	5	6
FALL VELOCITY (MPS)	.0010	.0070	.0190	.0370	.0610	.0990
MASS FRACTION	.1000	.4000	.2800	.1200	.0600	.0400
REFLECTION COEFFICIENT	1.0000	.8200	.7200	.6500	.5900	.5000

- SOURCE STRENGTHS (GRAMS PER SEC) -

- SEASON 1 -

SPEED CATEGORY	- STABILITY CATEGORIES - (1)	(2)	(3)	(4)	(5)	(6)
1	1.30000-001	1.00000-001	8.00000-002	4.00000-002	.00000	2.00000-002
2	1.60000-001	1.30000-001	1.20000-001	1.00000-001	8.00000-002	5.00000-002
3	.00000	1.60000-001	1.40000-001	1.30000-001	1.00000-001	.00000
4	.00000	.00000	1.60000-001	1.60000-001	.00000	.00000
5	.00000	.00000	1.90000-001	1.90000-001	.00000	.00000
6	.00000	.00000	2.20000-001	2.20000-001	.00000	.00000

WARNING - DISTANCE BETWEEN SOURCE 3 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED

X		4	VOLUME	40.00	.00	4.20	.00	STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 4.70
								STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 1.00

- PARTICULATE CATEGORIES -

	1	2	3	4	5	6
FALL VELOCITY (MPS)	.0010	.0070	.0190	.0370	.0610	.0990
MASS FRACTION	.1000	.4000	.2800	.1200	.0600	.0400
REFLECTION COEFFICIENT	1.0000	.8200	.7200	.6500	.5900	.5000

- SOURCE STRENGTHS (GRAMS PER SEC) -

- SEASON 1 -

SPEED CATEGORY	- STABILITY CATEGORIES - (1)	(2)	(3)	(4)	(5)	(6)
1	1.30000-001	1.00000-001	8.00000-002	4.00000-002	.00000	2.00000-002
2	1.60000-001	1.30000-001	1.20000-001	1.00000-001	8.00000-002	5.00000-002
3	.00000	1.60000-001	1.40000-001	1.30000-001	1.00000-001	.00000
4	.00000	.00000	1.60000-001	1.60000-001	.00000	.00000
5	.00000	.00000	1.90000-001	1.90000-001	.00000	.00000
6	.00000	.00000	2.20000-001	2.20000-001	.00000	.00000

WARNING - DISTANCE BETWEEN SOURCE 4 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED

- SOURCE INPUT DATA -

C A R D	T A P E	SOURCE NUMBER	SOURCE TYPE	X COORDINATE (M)	Y COORDINATE (M)	EMISSION HEIGHT (M)	BASE ELEV-ATION (M)
X		5	VOLUME	49.00	.00	6.10	.00

- SOURCE DETAILS DEPENDING ON TYPE -

STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 4.70
STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 1.00

- PARTICULATE CATEGORIES -

	1	2	3	4	5	6
FALL VELOCITY (MPS)	.0610	.0070	.0190	.0370	.0610	.0990
MASS FRACTION	.1000	.4000	.2800	.1200	.0600	.0400
REFLECTION COEFFICIENT	1.0000	.8200	.7200	.6500	.5900	.5000

- SOURCE STRENGTHS (GRAMS PER SEC) -

- SEASON 1 -

SPEED CATEGORY	- STABILITY CATEGORIES - (1)	(2)	(3)	(4)	(5)	(6)
1	1.30000-001	1.00000-001	8.00000-002	4.00000-002	.00000	2.00000-002
2	1.60000-001	1.30000-001	1.20000-001	1.00000-001	8.00000-002	5.00000-002
3	.00000	1.60000-001	1.40000-001	1.30000-001	1.00000-001	.00000
4	.00000	.00000	1.60000-001	1.60000-001	.00000	.00000
5	.00000	.00000	1.90000-001	1.90000-001	.00000	.00000
6	.00000	.00000	2.20000-001	2.20000-001	.00000	.00000

WARNING - DISTANCE BETWEEN SOURCE 5 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED

X		6	VOLUME	59.00	.00	7.80	.00

STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 4.70
STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 1.00

- PARTICULATE CATEGORIES -

	1	2	3	4	5	6
FALL VELOCITY (MPS)	.0010	.0070	.0190	.0370	.0610	.0990
MASS FRACTION	.1000	.4000	.2800	.1200	.0600	.0400
REFLECTION COEFFICIENT	1.0000	.8200	.7200	.6500	.5900	.5000

- SOURCE STRENGTHS (GRAMS PER SEC) -

- SEASON 1 -

SPEED CATEGORY	- STABILITY CATEGORIES - (1)	(2)	(3)	(4)	(5)	(6)
1	1.30000-001	1.00000-001	8.00000-002	4.00000-002	.00000	2.00000-002
2	1.60000-001	1.30000-001	1.20000-001	1.00000-001	8.00000-002	5.00000-002
3	.00000	1.60000-001	1.40000-001	1.30000-001	1.00000-001	.00000
4	.00000	.00000	1.60000-001	1.60000-001	.00000	.00000
5	.00000	.00000	1.90000-001	1.90000-001	.00000	.00000
6	.00000	.00000	2.20000-001	2.20000-001	.00000	.00000

WARNING - DISTANCE BETWEEN SOURCE 6 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED

- SOURCE INPUT DATA -

C A T E G O R Y	T Y P E	SOURCE NUMBER	SOURCE TYPE	X COORDINATE (M)	Y COORDINATE (M)	EMISSION HEIGHT (M)	BASE ELEVATION (M)	/ - SOURCE DETAILS DEPENDING ON TYPE -
X		7	VOLUME	69.00	.00	9.60	.00	/ STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 4.70
								/ STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 1.00

- PARTICULATE CATEGORIES -

	1	2	3	4	5	6
FALL VELOCITY (MPS)	.0010	.0070	.0190	.0370	.0610	.0990
MASS FRACTION	.1000	.4000	.2800	.1200	.0600	.0400
REFLECTION COEFFICIENT	1.0000	.8200	.7200	.6500	.5900	.5000

- SOURCE STRENGTHS (GRAMS PER SEC) -

- SEASON 1 -

SPEED CATEGORY	- STABILITY CATEGORIES - (1)	(2)	(3)	(4)	(5)	(6)
1	1.30000-001	1.00000-001	8.00000-002	4.00000-002	.00000	2.00000-002
2	1.60000-001	1.30000-001	1.20000-001	1.00000-001	8.00000-002	5.00000-002
3	.00000	1.60000-001	1.40000-001	1.30000-001	1.00000-001	.00000
4	.00000	.00000	1.60000-001	1.60000-001	.00000	.00000
5	.00000	.00000	1.90000-001	1.90000-001	.00000	.00000
6	.00000	.00000	2.20000-001	2.20000-001	.00000	.00000

WARNING - DISTANCE BETWEEN SOURCE 7 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED

X		8	VOLUME	79.00	.00	11.30	.00	STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 4.70
								STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 1.00

- PARTICULATE CATEGORIES -

	1	2	3	4	5	6
FALL VELOCITY (MPS)	.0010	.0070	.0190	.0370	.0610	.0990
MASS FRACTION	.1000	.4000	.2800	.1200	.0600	.0400
REFLECTION COEFFICIENT	1.0000	.8200	.7200	.6500	.5900	.5000

- SOURCE STRENGTHS (GRAMS PER SEC) -

- SEASON 1 -

SPEED CATEGORY	- STABILITY CATEGORIES - (1)	(2)	(3)	(4)	(5)	(6)
1	1.30000-001	1.00000-001	8.00000-002	4.00000-002	.00000	2.00000-002
2	1.60000-001	1.30000-001	1.20000-001	1.00000-001	8.00000-002	5.00000-002
3	.00000	1.60000-001	1.40000-001	1.30000-001	1.00000-001	.00000
4	.00000	.00000	1.60000-001	1.60000-001	.00000	.00000
5	.00000	.00000	1.90000-001	1.90000-001	.00000	.00000
6	.00000	.00000	2.20000-001	2.20000-001	.00000	.00000

WARNING - DISTANCE BETWEEN SOURCE 8 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED

**** ISCLT ************** HYPOTHETICAL POTASH PROCESSING PLANT ******** PAGE 10 ****

- SOURCE INPUT DATA -

C A R D	T A P E	SOURCE NUMBER	SOURCE TYPE	X COORDINATE (M)	Y COORDINATE (M)	EMISSION HEIGHT (M)	BASE ELEV- ATION (M)	/ / / /	- SOURCE DETAILS DEPENDING ON TYPE -
X		9	VOLUME	89.00	.00	13.00	.00		STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 4.70 STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 1.00

- PARTICULATE CATEGORIES -

	1	2	3	4	5	6
FALL VELOCITY (MPS)	.0010	.0070	.0190	.0370	.0610	.0990
MASS FRACTION	.1000	.4000	.2800	.1200	.0600	.0400
REFLECTION COEFFICIENT	1.0000	.8200	.7200	.6500	.5900	.5000

- SOURCE STRENGTHS (GRAMS PER SEC) -

- SEASON 1 -

SPEED CATEGORY	- STABILITY CATEGORIES - (1)	(2)	(3)	(4)	(5)	(6)
1	1.30000-001	1.00000-001	8.00000-002	4.00000-002	.00000	2.00000-002
2	1.60000-001	1.30000-001	1.20000-001	1.00000-001	8.00000-002	5.00000-002
3	.00000	1.60000-001	1.40000-001	1.30000-001	1.00000-001	.00000
4	.00000	.00000	1.60000-001	1.60000-001	.00000	.00000
5	.00000	.00000	1.90000-001	1.90000-001	.00000	.00000
6	.00000	.00000	2.20000-001	2.20000-001	.00000	.00000

WARNING - DISTANCE BETWEEN SOURCE 9 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED

X		10	VOLUME	99.00	.00	14.80	.00

STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 4.70
STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 1.00

- PARTICULATE CATEGORIES -

	1	2	3	4	5	6
FALL VELOCITY (MPS)	.0010	.0070	.0190	.0370	.0610	.0990
MASS FRACTION	.1000	.4000	.2800	.1200	.0600	.0400
REFLECTION COEFFICIENT	1.0000	.8200	.7200	.6500	.5900	.5000

- SOURCE STRENGTHS (GRAMS PER SEC) -

- SEASON 1 -

SPEED CATEGORY	- STABILITY CATEGORIES - (1)	(2)	(3)	(4)	(5)	(6)
1	1.30000-001	1.00000-001	8.00000-002	4.00000-002	.00000	2.00000-002
2	1.60000-001	1.30000-001	1.20000-001	1.00000-001	8.00000-002	5.00000-002
3	.00000	1.60000-001	1.40000-001	1.30000-001	1.00000-001	.00000
4	.00000	.00000	1.60000-001	1.60000-001	.00000	.00000
5	.00000	.00000	1.90000-001	1.90000-001	.00000	.00000
6	.00000	.00000	2.20000-001	2.20000-001	.00000	.00000

WARNING - DISTANCE BETWEEN SOURCE 10 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED
WARNING - DISTANCE BETWEEN SOURCE 10 AND POINT X,Y= 200.00, .00 IS LESS THAN PERMITTED

- SOURCE INPUT DATA -

C A R D	T A P E	SOURCE NUMBER	SOURCE TYPE	X COORDINATE (M)	Y COORDINATE (M)	EMISSION HEIGHT (M)	BASE ELEVATION (M)	- SOURCE DETAILS DEPENDING ON TYPE -
X		11	VOLUME	109.00	.00	16.50	.00	STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 4.70
								STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 1.00

- PARTICULATE CATEGORIES -

	1	2	3	4	5	6
FALL VELOCITY (MPS)	.0010	.0070	.0190	.0370	.0610	.0990
MASS FRACTION	.1000	.4000	.2800	.1200	.0600	.0400
REFLECTION COEFFICIENT	1.0000	.8200	.7200	.6500	.5900	.5000

- SOURCE STRENGTHS (GRAMS PER SEC) -

- SEASON 1 -

SPEED CATEGORY	- STABILITY CATEGORIES - (1)	(2)	(3)	(4)	(5)	(6)
1	1.30000-001	1.00000-001	8.00000-002	4.00000-002	.00000	2.00000-002
2	1.60000-001	1.30000-001	1.20000-001	1.00000-001	8.00000-002	5.00000-002
3	.00000	1.60000-001	1.40000-001	1.30000-001	1.00000-001	.00000
4	.00000	.00000	1.60000-001	1.60000-001	.00000	.00000
5	.00000	.00000	1.90000-001	1.90000-001	.00000	.00000
6	.00000	.00000	2.20000-001	2.20000-001	.00000	.00000

WARNING - DISTANCE BETWEEN SOURCE 11 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED
WARNING - DISTANCE BETWEEN SOURCE 11 AND POINT X,Y= 200.00, .00 IS LESS THAN PERMITTED

X		12	VOLUME	121.00	.00	22.50	.00	STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 10.80
								STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 11.60

- SOURCE STRENGTHS (GRAMS PER SEC) -

SEASON 1 SEASON 2 SEASON 3 SEASON 4

2.63000+000

WARNING - DISTANCE BETWEEN SOURCE 12 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED
WARNING - DISTANCE BETWEEN SOURCE 12 AND POINT X,Y= 200.00, .00 IS LESS THAN PERMITTED

X		13	VOLUME	144.00	.00	22.50	.00	STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 10.80
								STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 11.60

- SOURCE STRENGTHS (GRAMS PER SEC) -

SEASON 1 SEASON 2 SEASON 3 SEASON 4

2.63000+000

WARNING - DISTANCE BETWEEN SOURCE 13 AND POINT X,Y= 200.00, .00 IS LESS THAN PERMITTED

X		14	VOLUME	167.00	.00	22.50	.00	STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 10.80
								STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 11.60

- SOURCE STRENGTHS (GRAMS PER SEC) -

SEASON 1 SEASON 2 SEASON 3 SEASON 4

2.63000+000

WARNING - DISTANCE BETWEEN SOURCE 14 AND POINT X,Y= 200.00, .00 IS LESS THAN PERMITTED

X		15	VOLUME	190.00	.00	22.50	.00	STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 10.80
								STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 11.60

- SOURCE STRENGTHS (GRAMS PER SEC) -

SEASON 1 SEASON 2 SEASON 3 SEASON 4

2.63000+000

WARNING - DISTANCE BETWEEN SOURCE 15 AND POINT X,Y= 200.00, .00 IS LESS THAN PERMITTED

- SOURCE INPUT DATA -

C A R D	T A P E	SOURCE NUMBER	SOURCE TYPE	X COORDINATE (M)	Y COORDINATE (M)	EMISSION HEIGHT (M)	BASE ELEV- ATION (M)	/ / /	- SOURCE DETAILS DEPENDING ON TYPE -
X		16	STACK	201.00	30.00	50.00	.00		GAS EXIT TEMP (DEG K)= 340.00, GAS EXIT VEL. (M/SEC)= 8.00, STACK DIAMETER (M)= 1.000, HEIGHT OF ASSO. BLDG. (M)= 25.00, WIDTH OF ASSO. BLDG. (M)= 67.00, WAKE EFFECTS FLAG = 0

- SOURCE STRENGTHS (GRAMS PER SEC) -

SEASON 1	SEASON 2	SEASON 3	SEASON 4
5.00000+000			

WARNING - DISTANCE BETWEEN SOURCE 16 AND POINT X,Y= 200.00, .00 IS LESS THAN PERMITTED

** ANNUAL GROUND LEVEL CONCENTRATION (MICROGRAMS PER CUBIC METER) DUE TO SOURCE 1 **

- GRID SYSTEM RECEPTORS -

- X AXIS (DISTANCE, METERS) -

Y AXIS (DISTANCE, METERS)	.000	200.000	400.000	600.000	800.000	1000.000	1250.000	1500.000	2000.000
				- CONCENTRATION -					
3000.000	22.677743	21.234118	20.180590	18.980791	17.675214	16.298837	14.720780	13.292376	11.146984
2000.000	47.175719	42.651813	39.090896	35.017848	30.757320	27.181067	23.796320	20.633406	16.082098
1500.000	79.679336	69.482379	60.991139	51.987680	43.676129	37.682801	30.940405	26.947521	25.870794
1250.000	111.115554	94.029237	79.371454	63.736940	53.609860	44.416317	37.490723	36.281175	32.648046
1000.000	166.803640	134.636581	109.220165	82.987275	65.703952	56.300954	53.253517	49.731992	40.562992
800.000	253.041491	191.863989	137.076151	102.840727	84.535987	78.478118	71.487429	62.825632	51.134112
600.000	430.659637	292.326946	189.365541	144.207319	126.049892	112.113587	93.622082	85.190753	65.830317
400.000	883.975342	451.037827	306.298756	240.303576	192.648809	174.610664	141.942419	116.528004	81.035526
200.000	2509.963715	975.794449	595.160080	489.547577	353.187038	263.139072	193.901257	148.790634	95.964260
.000	.000000	3772.401001	1647.355499	875.738564	539.581223	367.059872	252.143021	184.859499	112.749397
-200.000	2865.911804	1490.095734	898.792297	631.850784	427.472961	306.749363	219.599201	165.272757	104.003670
-400.000	1257.482544	706.168335	518.893097	382.899570	296.574131	248.781038	185.768887	145.250357	95.394717
-600.000	666.668755	469.147308	323.017250	253.917171	208.036390	178.599720	145.392815	124.021405	85.636791
-800.000	410.062202	318.460144	234.052969	182.217319	152.317839	133.224499	116.277280	99.648745	75.469131
-1000.000	278.792706	229.037271	187.656651	146.848982	119.347918	103.095357	91.363341	82.141430	64.307633
-1250.000	192.338352	164.715227	139.280561	113.313157	97.128614	81.902442	69.596685	63.508497	53.744160
-1500.000	141.608788	124.534027	109.166794	93.134131	79.307329	69.343916	57.827950	50.529677	44.425852
-2000.000	87.012285	79.033845	72.158997	64.453167	56.486966	50.276683	44.472208	38.938442	30.609369
-3000.000	43.907272	41.185440	38.965236	36.493958	33.848027	31.091059	27.953678	25.337409	21.431062

- DISCRETE RECEPTORS -

X RANGE (METERS)	Y AZIMUTH BEARING (DEGREES)	CONCENTRATION	X RANGE (METERS)	Y AZIMUTH BEARING (DEGREES)	CONCENTRATION	X RANGE (METERS)	Y AZIMUTH BEARING (DEGREES)	CONCENTRATION
2108.0	14.0	35.678412						

- 10 CONTRIBUTING VALUES TO PROGRAM DETERMINED MAXIMUM 10 OF COMBINED SOURCES 1.

X COORDINATE (METERS)	Y COORDINATE (METERS)	CONCENTRATION
200.00	.00	3772.401001
.00	-200.00	2865.911804
.00	200.00	2509.963715
400.00	.00	1647.355499
200.00	-200.00	1490.095734
.00	-400.00	1257.482544
200.00	200.00	975.794449
400.00	-200.00	898.792297
.00	400.00	883.975342

** ANNUAL GROUND LEVEL CONCENTRATION (MICROGRAMS PER CUBIC METER) DUE TO SOURCE 1 (CONT.) **

- 10 CONTRIBUTING VALUES TO PROGRAM DETERMINED MAXIMUM 10 OF COMBINED SOURCES 1,

X COORDINATE (METERS)	Y COORDINATE (METERS)	CONCENTRATION
600.00	.00	875.738564

** ANNUAL GROUND LEVEL CONCENTRATION (MICROGRAMS PER CUBIC METER) FROM COMBINED SOURCES 2, -16,

- GRID SYSTEM RECEPTORS -
- X AXIS (DISTANCE, METERS) -
- CONCENTRATION -

Y AXIS (DISTANCE, METERS)	.000	200.000	400.000	600.000	800.000	1000.000	1250.000	1500.000	2000.000
3000.000	2.256980	2.337300	2.238011	2.172863	2.095651	2.008642	1.890665	1.737610	1.443514
2000.000	3.869124	4.037726	3.763009	3.546899	3.300398	3.120856	2.602354	2.277778	1.732293
1500.000	5.644535	5.920589	5.358059	4.877898	4.478129	3.683197	3.082409	2.583056	2.501183
1250.000	7.144453	7.516505	6.631203	5.958246	4.859153	4.101264	3.333843	3.201998	3.108014
1000.000	9.451748	9.972130	8.454648	7.311549	5.568083	4.549099	4.277136	4.159448	3.814859
800.000	12.377754	13.078682	10.670327	7.986123	6.206909	5.877450	5.437608	5.174042	4.933415
600.000	17.352464	18.125743	14.013487	9.200056	8.372468	7.590604	7.019935	7.100887	6.222278
400.000	28.413480	27.916920	16.546905	13.278197	11.443766	11.677675	11.087293	9.611025	7.543510
200.000	52.933673	53.622889	27.758404	26.316936	21.635455	17.878168	14.560005	12.087634	8.853422
.000	55.270909	25.995482	79.029947	47.951849	33.710021	25.726391	19.476366	15.417565	10.638906
-200.000	40.856673	57.689791	39.032500	32.905189	25.051250	19.870579	15.856197	12.985482	9.347219
-400.000	28.188271	33.113125	24.546991	20.654577	16.364011	15.534513	13.521315	11.134956	8.395352
-600.000	19.231940	22.911144	20.720984	15.002602	13.725113	11.424574	10.005955	9.456800	7.390315
-800.000	14.683694	17.366228	15.573636	12.888677	10.730237	10.003160	8.408610	7.579345	6.560409
-1000.000	11.790842	13.737545	12.431316	11.861820	9.498084	8.167622	7.309055	6.563537	5.491637
-1250.000	9.359887	10.729935	9.951669	9.527958	8.237236	7.246688	6.186592	5.640071	4.807922
-1500.000	7.676636	8.682455	8.184958	7.773595	7.606096	6.457863	5.632849	4.906101	4.195743
-2000.000	5.552798	6.154972	5.911798	5.737722	5.502427	5.444920	4.676422	4.216324	3.395127
-3000.000	3.446854	3.724611	3.638746	3.594019	3.528513	3.444703	3.320761	3.151379	2.716522

- DISCRETE RECEPTORS -

X RANGE (METERS)	Y AZIMUTH BEARING (DEGREES)	CONCENTRATION	X RANGE (METERS)	Y AZIMUTH BEARING (DEGREES)	CONCENTRATION	X RANGE (METERS)	Y AZIMUTH BEARING (DEGREES)	CONCENTRATION
2108.0	14.0	3.552086						

- PROGRAM DETERMINED MAXIMUM 10 VALUES -

X COORDINATE (METERS)	Y COORDINATE (METERS)	CONCENTRATION
400.00	.00	79.029947
200.00	-200.00	57.689791
.00	.00	55.270909
200.00	200.00	53.622889
.00	200.00	52.933673
600.00	.00	47.951849
.00	-200.00	40.856673
400.00	-200.00	39.032500
800.00	.00	33.710021

**** ISCLT ************** HYPOTHETICAL POTASH PROCESSING PLANT ********* PAGE 16 ****

** ANNUAL GROUND LEVEL CONCENTRATION (MICROGRAMS PER CUBIC METER) (CONT.) FROM COMBINED SOURCES 2, -16,

- PROGRAM DETERMINED MAXIMUM 10 VALUES -

X COORDINATE (METERS)	Y COORDINATE (METERS)	CONCENTRATION
200.00	-400.00	33.113125

**** ISCLT ********** HYPOTHETICAL POTASH PROCESSING PLANT ******** PAGE 17 ****

- SUMMARY OF SOURCES OUTPUT TO TAPE -

NUMBER/TYPE	NUMBER/TYPE	NUMBER/TYPE	NUMBER/TYPE	NUMBER/TYPE	NUMBER/TYPE	NUMBER/TYPE	NUMBER/TYPE	NUMBER/TYPE	NUMBER/TYPE	NUMBER/TYPE
1 2	2 1	3 1	4 1	5 1	6 1	7 1	8 1	9 1	10 1	11 1
12 1	13 1	14 1	15 1	16 0						

********** END OF ISCLT PROGRAM. 16 SOURCES PROCESSED **********

$XQT U.ABS17

ISCLT (VERSION 80340)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 3. MODELS PROPOSED SEP80 FOR 81 GUIDELINES.
IN UNAMAP (VERSION 4) DEC 80
SOURCE: FILE 17 ON UNAMAP MAGNETIC TAPE FROM NTIS.

**** ISCLT ********** HYPOTHETICAL POTASH PROCESSING PLANT ******** PAGE 1 ****

- ISCLT INPUT DATA -

NUMBER OF SOURCES = 11
NUMBER OF X AXIS GRID SYSTEM POINTS = 9
NUMBER OF Y AXIS GRID SYSTEM POINTS = 19
NUMBER OF SPECIAL POINTS = 1
NUMBER OF SEASONS = 1
NUMBER OF WIND SPEED CLASSES = 6
NUMBER OF STABILITY CLASSES = 6
NUMBER OF WIND DIRECTION CLASSES = 16
FILE NUMBER OF DATA FILE USED FOR REPORTS = 1
THE PROGRAM IS RUN IN RURAL MODE
CONCENTRATION (DEPOSITION) UNITS CONVERSION FACTOR = .10000000+001
ACCELERATION OF GRAVITY (METERS/SEC**2) = 9.800
HEIGHT OF MEASUREMENT OF WIND SPEED (METERS) = 10.000
ENTRAINMENT PARAMETER FOR UNSTABLE CONDITIONS = .600
ENTRAINMENT PARAMETER FOR STABLE CONDITIONS = .600
CORRECTION ANGLE FOR GRID SYSTEM VERSUS DIRECTION DATA NORTH (DEGREES) = .000
DECAY COEFFICIENT = .00000000
PROGRAM OPTION SWITCHES = 2, 1, 2, 0, 0, 3, 2, 2, 3, 2, 2, 0, 0, 0, 0, 0, 0, 0, 1, 0,
SOURCES USED TO FORM SOURCE COMBINATION 1 ARE - 1,
SOURCES USED TO FORM SOURCE COMBINATION 2 ARE - 2, -16,
DISTANCE X AXIS GRID SYSTEM POINTS (METERS)= .00, 200.00, 400.00, 600.00, 800.00, 1000.00,
1250.00, 1500.00, 2000.00,
RANGE X SPECIAL DISCRETE POINTS (METERS)= 2108.00,
DISTANCE Y AXIS GRID SYSTEM POINTS (METERS)= -3000.00, -2000.00, -1500.00, -1250.00, -1000.00, -800.00,
-600.00, -400.00, -200.00, .00, 200.00, 400.00, 600.00, 800.00, 1000.00, 1250.00,
1500.00, 2000.00, 3000.00,
AZIMUTH BEARING Y SPECIAL DISCRETE POINTS (DEGREES)= 14.00,

- AMBIENT AIR TEMPERATURE (DEGREES KELVIN) -

	STABILITY CATEGORY 1	STABILITY CATEGORY 2	STABILITY CATEGORY 3	STABILITY CATEGORY 4	STABILITY CATEGORY 5	STABILITY CATEGORY 6
SEASON 1	287.2000	287.2000	283.2000	280.8000	279.1000	279.1000

- MIXING LAYER HEIGHT (METERS) -

SEASON 1

	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY 1	.173000+004	.173000+004	.173000+004	.173000+004	.173000+004	.173000+004
STABILITY CATEGORY 2	.173000+004	.173000+004	.173000+004	.173000+004	.173000+004	.173000+004
STABILITY CATEGORY 3	.960000+003	.102500+004	.123500+004	.129500+004	.129500+004	.129500+004
STABILITY CATEGORY 4	.320000+003	.500000+003	.840000+003	.840000+003	.840000+003	.840000+003
STABILITY CATEGORY 5	.100000+005	.100000+005	.100000+005	.100000+005	.100000+005	.100000+005
STABILITY CATEGORY 6	.100000+005	.100000+005	.100000+005	.100000+005	.100000+005	.100000+005

- ISCLT INPUT DATA (CONT.) -

- FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY -

SEASON 1

STABILITY CATEGORY 1

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (.7500MPS)	WIND SPEED CATEGORY 2 (2.5000MPS)	WIND SPEED CATEGORY 3 (4.3000MPS)	WIND SPEED CATEGORY 4 (6.8000MPS)	WIND SPEED CATEGORY 5 (9.5000MPS)	WIND SPEED CATEGORY 6 (12.5000MPS)
.000	.00016950	.00008560	.00000000	.00000000	.00000000	.00000000
22.500	.00012830	.00019980	.00000000	.00000000	.00000000	.00000000
45.000	.00009180	.00019980	.00000000	.00000000	.00000000	.00000000
67.500	.00010760	.00025690	.00000000	.00000000	.00000000	.00000000
90.000	.00031190	.00059950	.00000000	.00000000	.00000000	.00000000
112.500	.00036110	.00051390	.00000000	.00000000	.00000000	.00000000
135.000	.00038650	.00034260	.00000000	.00000000	.00000000	.00000000
157.500	.00069530	.00079930	.00000000	.00000000	.00000000	.00000000
180.000	.00067470	.00085640	.00000000	.00000000	.00000000	.00000000
202.500	.00055120	.00054240	.00000000	.00000000	.00000000	.00000000
225.000	.00014410	.00025690	.00000000	.00000000	.00000000	.00000000
247.500	.00011550	.00028550	.00000000	.00000000	.00000000	.00000000
270.000	.00028990	.00025690	.00000000	.00000000	.00000000	.00000000
292.500	.00008390	.00017130	.00000000	.00000000	.00000000	.00000000
315.000	.00006020	.00008560	.00000000	.00000000	.00000000	.00000000
337.500	.00028200	.00022840	.00000000	.00000000	.00000000	.00000000

SEASON 1

STABILITY CATEGORY 2

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (.7500MPS)	WIND SPEED CATEGORY 2 (2.5000MPS)	WIND SPEED CATEGORY 3 (4.3000MPS)	WIND SPEED CATEGORY 4 (6.8000MPS)	WIND SPEED CATEGORY 5 (9.5000MPS)	WIND SPEED CATEGORY 6 (12.5000MPS)
.000	.00073530	.00077080	.00057100	.00000000	.00000000	.00000000
22.500	.00104880	.00108480	.00048530	.00000000	.00000000	.00000000
45.000	.00044440	.00068510	.00019980	.00000000	.00000000	.00000000
67.500	.00096290	.00148450	.00085640	.00000000	.00000000	.00000000
90.000	.00187750	.00279770	.00168430	.00000000	.00000000	.00000000
112.500	.00168920	.00279770	.00276910	.00000000	.00000000	.00000000
135.000	.00197700	.00316880	.00342570	.00000000	.00000000	.00000000
157.500	.00262380	.00399670	.00425361	.00000000	.00000000	.00000000
180.000	.00459181	.00422511	.00285480	.00000000	.00000000	.00000000
202.500	.00262740	.00308320	.00105630	.00000000	.00000000	.00000000
225.000	.00145670	.00108480	.00062810	.00000000	.00000000	.00000000
247.500	.00165270	.00211250	.00071370	.00000000	.00000000	.00000000
270.000	.00249950	.00211250	.00111240	.00000000	.00000000	.00000000
292.500	.00134250	.00119900	.00077080	.00000000	.00000000	.00000000
315.000	.00091510	.00068510	.00045680	.00000000	.00000000	.00000000
337.500	.00073250	.00074220	.00037110	.00000000	.00000000	.00000000

- ISCLT INPUT DATA (CONT.) -

- FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY -

SEASON 1

STABILITY CATEGORY 3

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (.7500MPS)	WIND SPEED CATEGORY 2 (2.5000MPS)	WIND SPEED CATEGORY 3 (4.3000MPS)	WIND SPEED CATEGORY 4 (6.8000MPS)	WIND SPEED CATEGORY 5 (9.5000MPS)	WIND SPEED CATEGORY 6 (12.5000MPS)
.000	.00046450	.00094210	.00125610	.00014270	.00002850	.00000000
22.500	.00069900	.00079930	.00151300	.00048530	.00014270	.00002850
45.000	.00026680	.00074220	.00094210	.00042820	.00002850	.00000000
67.500	.00053170	.00145590	.00157010	.00042820	.00005710	.00000000
90.000	.00068820	.00279770	.00585231	.00071370	.00008560	.00000000
112.500	.00069610	.00376830	.00696571	.00211250	.00014270	.00000000
135.000	.00058420	.00305460	.00756521	.00316880	.00017130	.00000000
157.500	.00060830	.00425361	.00810761	.00259780	.00019980	.00000000
180.000	.00117710	.00408231	.00511011	.00062810	.00011420	.00002850
202.500	.00077160	.00353990	.00245510	.00025690	.00011420	.00008560
225.000	.00060500	.00162720	.00202690	.00045680	.00008560	.00014270
247.500	.00082450	.00385390	.00288330	.00051390	.00017130	.00034260
270.000	.00141350	.00439641	.00596651	.00111340	.00028550	.00034260
292.500	.00085360	.00211250	.00339720	.00051390	.00025690	.00022840
315.000	.00035030	.00105630	.00134170	.00017130	.00005710	.00002850
337.500	.00065610	.00105630	.00094210	.00011420	.00005710	.00000000

SEASON 1

STABILITY CATEGORY 4

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (.7500MPS)	WIND SPEED CATEGORY 2 (2.5000MPS)	WIND SPEED CATEGORY 3 (4.3000MPS)	WIND SPEED CATEGORY 4 (6.8000MPS)	WIND SPEED CATEGORY 5 (9.5000MPS)	WIND SPEED CATEGORY 6 (12.5000MPS)
.000	.00095500	.00259780	.00790771	.01367442	.01127641	.01027721
22.500	.00068970	.00274060	.00887841	.01347452	.00807901	.00505301
45.000	.00039840	.00168430	.00659451	.00553831	.00205540	.00054240
67.500	.00084880	.00408231	.00862141	.00616631	.00114190	.00019980
90.000	.00196280	.00619491	.01490192	.01247542	.00194120	.00022840
112.500	.00133850	.00533841	.01661482	.01841332	.00322590	.00048530
135.000	.00071740	.00353990	.00907821	.01190441	.00171290	.00019980
157.500	.00098470	.00342570	.00659451	.00702281	.00119900	.00025690
180.000	.00100970	.00376830	.00468181	.00451051	.00125610	.00062810
202.500	.00057970	.00291190	.00214110	.00342570	.00131320	.00048530
225.000	.00049800	.00137030	.00225530	.00345430	.00199830	.00125610
247.500	.00055980	.00179850	.00505301	.00568081	.00285480	.00208400
270.000	.00122310	.00459621	.00913531	.01484482	.00790771	.00576671
292.500	.00069900	.00202690	.00742241	.01415972	.01061981	.00659451
315.000	.00053550	.00188420	.00511011	.00759371	.00294040	.00194120
337.500	.00074000	.00216960	.00653741	.00559541	.00262640	.00159870

- ISCLT INPUT DATA (CONT.) -

- FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY -

SEASON 1

STABILITY CATEGORY 5

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (.7500MPS)	WIND SPEED CATEGORY 2 (2.5000MPS)	WIND SPEED CATEGORY 3 (4.3000MPS)	WIND SPEED CATEGORY 4 (6.8000MPS)	WIND SPEED CATEGORY 5 (9.5000MPS)	WIND SPEED CATEGORY 6 (12.5000MPS)
.000	.00000000	.00525281	.00950641	.00000000	.00000000	.00000000
22.500	.00000000	.00325440	.00767941	.00000000	.00000000	.00000000
45.000	.00000000	.00177000	.00570961	.00000000	.00000000	.00000000
67.500	.00000000	.00336860	.00759371	.00000000	.00000000	.00000000
90.000	.00000000	.00496731	.00970621	.00000000	.00000000	.00000000
112.500	.00000000	.00274060	.00562391	.00000000	.00000000	.00000000
135.000	.00000000	.00177000	.00274060	.00000000	.00000000	.00000000
157.500	.00000000	.00236950	.00182710	.00000000	.00000000	.00000000
180.000	.00000000	.00245510	.00157010	.00000000	.00000000	.00000000
202.500	.00000000	.00182710	.00131320	.00000000	.00000000	.00000000
225.000	.00000000	.00165580	.00199830	.00000000	.00000000	.00000000
247.500	.00000000	.00342570	.00553831	.00000000	.00000000	.00000000
270.000	.00000000	.00668021	.01116221	.00000000	.00000000	.00000000
292.500	.00000000	.00499591	.00702281	.00000000	.00000000	.00000000
315.000	.00000000	.00356850	.00630911	.00000000	.00000000	.00000000
337.500	.00000000	.00522421	.00899251	.00000000	.00000000	.00000000

SEASON 1

STABILITY CATEGORY 6

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (.7500MPS)	WIND SPEED CATEGORY 2 (2.5000MPS)	WIND SPEED CATEGORY 3 (4.3000MPS)	WIND SPEED CATEGORY 4 (6.8000MPS)	WIND SPEED CATEGORY 5 (9.5000MPS)	WIND SPEED CATEGORY 6 (12.5000MPS)
.000	.00684121	.00973481	.00000000	.00000000	.00000000	.00000000
22.500	.00373070	.00559541	.00000000	.00000000	.00000000	.00000000
45.000	.00247790	.00431071	.00000000	.00000000	.00000000	.00000000
67.500	.00283840	.00493881	.00000000	.00000000	.00000000	.00000000
90.000	.00475321	.00773641	.00000000	.00000000	.00000000	.00000000
112.500	.00306470	.00491021	.00000000	.00000000	.00000000	.00000000
135.000	.00320440	.00282620	.00000000	.00000000	.00000000	.00000000
157.500	.00356230	.00236950	.00000000	.00000000	.00000000	.00000000
180.000	.00470731	.00316880	.00000000	.00000000	.00000000	.00000000
202.500	.00486151	.00416801	.00000000	.00000000	.00000000	.00000000
225.000	.00296740	.00342570	.00000000	.00000000	.00000000	.00000000
247.500	.00590741	.00944931	.00000000	.00000000	.00000000	.00000000
270.000	.01170781	.02055443	.00000000	.00000000	.00000000	.00000000
292.500	.00742881	.01204721	.00000000	.00000000	.00000000	.00000000
315.000	.00629431	.00982041	.00000000	.00000000	.00000000	.00000000
337.500	.00761371	.01281802	.00000000	.00000000	.00000000	.00000000

- ISCLT INPUT DATA (CONT.) -

- VERTICAL POTENTIAL TEMPERATURE GRADIENT (DEGREES KELVIN/METER) -

	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY 1	.000000	.000000	.000000	.000000	.000000	.000000
STABILITY CATEGORY 2	.000000	.000000	.000000	.000000	.000000	.000000
STABILITY CATEGORY 3	.000000	.000000	.000000	.000000	.000000	.000000
STABILITY CATEGORY 4	.000000	.000000	.000000	.000000	.000000	.000000
STABILITY CATEGORY 5	.200000-001	.200000-001	.200000-001	.200000-001	.200000-001	.200000-001
STABILITY CATEGORY 6	.350000-001	.350000-001	.350000-001	.350000-001	.350000-001	.350000-001

- WIND PROFILE POWER LAW EXPONENTS -

	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY 1	.100000+000	.100000+000	.100000+000	.100000+000	.100000+000	.100000+000
STABILITY CATEGORY 2	.150000+000	.150000+000	.150000+000	.150000+000	.150000+000	.150000+000
STABILITY CATEGORY 3	.200000+000	.200000+000	.200000+000	.200000+000	.200000+000	.200000+000
STABILITY CATEGORY 4	.250000+000	.250000+000	.250000+000	.250000+000	.250000+000	.250000+000
STABILITY CATEGORY 5	.300000+000	.300000+000	.300000+000	.300000+000	.300000+000	.300000+000
STABILITY CATEGORY 6	.300000+000	.300000+000	.300000+000	.300000+000	.300000+000	.300000+000

- SOURCE INPUT DATA -

C A R D	T A P E	SOURCE NUMBER	SOURCE TYPE	X COORDINATE (M)	Y COORDINATE (M)	EMISSION HEIGHT (M)	BASE ELEV-ATION (M)	/ - SOURCE DETAILS DEPENDING ON TYPE -
X		1	AREA	-13.30	-13.30	10.00	.00	WIDTH OF AREA (M)= 26.60

- PARTICULATE CATEGORIES -

	1	2	3	4	5	6
FALL VELOCITY (MPS)	.0010	.0070	.0190	.0370	.0610	.0990
MASS FRACTION	.1000	.4000	.2800	.1200	.0600	.0400
REFLECTION COEFFICIENT	1.0000	.8200	.7200	.6500	.5900	.5000

- SOURCE STRENGTHS (GRAMS PER SQUARE METER) -

- SEASON 1 -

SPEED CATEGORY	- STABILITY CATEGORIES - (1)	(2)	(3)	(4)	(5)	(6)
1	1.26000+007	9.46000+006	6.31000+006	3.15000+007	.00000	1.58000+006
2	1.58000+007	1.26000+007	9.46900+006	7.88000+006	6.31000+006	3.15000+006
3	.00000	1.58000+007	1.26000+007	1.26000+007	9.46000+006	.00000
4	.00000	.00000	1.58000+007	1.58000+007	.00000	.00000
5	.00000	.00000	2.21000+007	2.21000+007	.00000	.00000
6	.00000	.00000	3.15000+007	3.15000+007	.00000	.00000

WARNING - DISTANCE BETWEEN SOURCE 1 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED

X		2	VOLUME	20.00	.00	.90	.00	STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 4.70
								STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 1.00

- PARTICULATE CATEGORIES -

	1	2	3	4	5	6
FALL VELOCITY (MPS)	.0010	.0070	.0190	.0370	.0610	.0990
MASS FRACTION	.1000	.4000	.2800	.1200	.0600	.0400
REFLECTION COEFFICIENT	1.0000	.8200	.7200	.6500	.5900	.5000

- SOURCE STRENGTHS (GRAMS) -

- SEASON 1 -

SPEED CATEGORY	- STABILITY CATEGORIES - (1)	(2)	(3)	(4)	(5)	(6)
1	4.10000+006	3.15000+006	2.52000+006	1.26000+006	.00000	6.31000+005
2	5.05000+006	4.10000+006	3.78000+006	3.15000+006	2.52000+006	1.58000+006
3	.00000	5.05000+006	4.42000+006	4.10000+006	3.15000+006	.00000
4	.00000	.00000	5.05000+006	5.05000+006	.00000	.00000
5	.00000	.00000	5.99000+006	5.99000+006	.00000	.00000
6	.00000	.00000	6.94000+006	6.94000+006	.00000	.00000

WARNING - DISTANCE BETWEEN SOURCE 2 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED

- SOURCE INPUT DATA -

C A R D	T A P E	SOURCE NUMBER	SOURCE TYPE	X COORDINATE (M)	Y COORDINATE (M)	EMISSION HEIGHT (M)	BASE ELEVATION (M)	- SOURCE DETAILS DEPENDING ON TYPE -
X		3	VOLUME	30.00	.00	2.60	.00	STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 4.70
								STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 1.00

- PARTICULATE CATEGORIES -

	1	2	3	4	5	6
FALL VELOCITY (MPS)	.0010	.0070	.0190	.0370	.0610	.0990
MASS FRACTION	.1000	.4000	.2800	.1200	.0600	.0400
REFLECTION COEFFICIENT	1.0000	.8200	.7200	.6500	.5900	.5000

- SOURCE STRENGTHS (GRAMS) -

- SEASON 1 -

SPEED CATEGORY	- STABILITY CATEGORIES - (1)	(2)	(3)	(4)	(5)	(6)
1	4.10000+006	3.15000+006	2.52000+006	1.26000+006	.00000	6.31000+005
2	5.05000+006	4.10000+006	3.78000+006	3.15000+006	2.52000+006	1.58000+006
3	.00000	5.05000+006	4.42000+006	4.10000+006	3.15000+006	.00000
4	.00000	.00000	5.05000+006	5.05000+006	.00000	.00000
5	.00000	.00000	5.99000+006	5.99000+006	.00000	.00000
6	.00000	.00000	6.94000+006	6.94000+006	.00000	.00000

WARNING - DISTANCE BETWEEN SOURCE 3 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED

X		4	VOLUME	40.00	.00	4.30	.00	STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 4.70
								STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 1.00

- PARTICULATE CATEGORIES -

	1	2	3	4	5	6
FALL VELOCITY (MPS)	.0010	.0070	.0190	.0370	.0610	.0990
MASS FRACTION	.1000	.4000	.2800	.1200	.0600	.0400
REFLECTION COEFFICIENT	1.0000	.8200	.7200	.6500	.5900	.5000

- SOURCE STRENGTHS (GRAMS) -

- SEASON 1 -

SPEED CATEGORY	- STABILITY CATEGORIES - (1)	(2)	(3)	(4)	(5)	(6)
1	4.10000+006	3.15000+006	2.52000+006	1.26000+006	.00000	6.31000+005
2	5.05000+006	4.10000+006	3.78000+006	3.15000+006	2.52000+006	1.58000+006
3	.00000	5.05000+006	4.42000+006	4.10000+006	3.15000+006	.00000
4	.00000	.00000	5.05000+006	5.05000+006	.00000	.00000
5	.00000	.00000	5.99000+006	5.99000+006	.00000	.00000
6	.00000	.00000	6.94000+006	6.94000+006	.00000	.00000

WARNING - DISTANCE BETWEEN SOURCE 4 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED

- SOURCE INPUT DATA -

C A R D	T A P E	SOURCE NUMBER	SOURCE TYPE	X COORDINATE (M)	Y COORDINATE (M)	EMISSION HEIGHT (M)	BASE ELEVATION (M)
X		5	VOLUME	49.00	.00	6.10	.00

- SOURCE DETAILS DEPENDING ON TYPE -

STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 4.70
STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 1.00

- PARTICULATE CATEGORIES -

	1	2	3	4	5	6
FALL VELOCITY (MPS)	.0010	.0070	.0190	.0370	.0610	.0990
MASS FRACTION	.1000	.4000	.2800	.1200	.0600	.0400
REFLECTION COEFFICIENT	1.0000	.8200	.7200	.6500	.5900	.5000

- SOURCE STRENGTHS (GRAMS) -

- SEASON 1 -

SPEED CATEGORY	- STABILITY CATEGORIES - (1)	(2)	(3)	(4)	(5)	(6)
1	4.10000+006	3.15000+006	2.52000+006	1.26000+006	.00000	6.31000+005
2	5.05000+006	4.10000+006	3.78000+006	3.15000+006	2.52000+006	1.58000+006
3	.00000	5.05000+006	4.42000+006	4.10000+006	3.15000+006	.00000
4	.00000	.00000	5.05000+006	5.05000+006	.00000	.00000
5	.00000	.00000	5.99000+006	5.99000+006	.00000	.00000
6	.00000	.00000	6.94000+006	6.94000+006	.00000	.00000

WARNING - DISTANCE BETWEEN SOURCE 5 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED

C A R D	T A P E	SOURCE NUMBER	SOURCE TYPE	X COORDINATE (M)	Y COORDINATE (M)	EMISSION HEIGHT (M)	BASE ELEVATION (M)
X		6	VOLUME	59.00	.00	7.80	.00

STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 4.70
STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 1.00

- PARTICULATE CATEGORIES -

	1	2	3	4	5	6
FALL VELOCITY (MPS)	.0010	.0070	.0190	.0370	.0610	.0990
MASS FRACTION	.1000	.4000	.2800	.1200	.0600	.0400
REFLECTION COEFFICIENT	1.0000	.8200	.7200	.6500	.5900	.5000

- SOURCE STRENGTHS (GRAMS) -

- SEASON 1 -

SPEED CATEGORY	- STABILITY CATEGORIES - (1)	(2)	(3)	(4)	(5)	(6)
1	4.10000+006	3.15000+006	2.52000+006	1.26000+006	.00000	6.31000+005
2	5.05000+006	4.10000+006	3.78000+006	3.15000+006	2.52000+006	1.58000+006
3	.00000	5.05000+006	4.42000+006	4.10000+006	3.15000+006	.00000
4	.00000	.00000	5.05000+006	5.05000+006	.00000	.00000
5	.00000	.00000	5.99000+006	5.99000+006	.00000	.00000
6	.00000	.00000	6.94000+006	6.94000+006	.00000	.00000

WARNING - DISTANCE BETWEEN SOURCE 6 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED

- SOURCE INPUT DATA -

CARD	TAPE	SOURCE NUMBER	SOURCE TYPE	X COORDINATE (M)	Y COORDINATE (M)	EMISSION HEIGHT (M)	BASE ELEVATION (M)	- SOURCE DETAILS DEPENDING ON TYPE -
X		7	VOLUME	69.00	.00	9.60	.00	STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 4.70
								STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 1.00

- PARTICULATE CATEGORIES -

	1	2	3	4	5	6
FALL VELOCITY (MPS)	.0010	.0070	.0190	.0370	.0610	.0990
MASS FRACTION	.1000	.4000	.2800	.1200	.0600	.0400
REFLECTION COEFFICIENT	1.0000	.8200	.7200	.6500	.5900	.5000

- SOURCE STRENGTHS (GRAMS / SECOND) - SEASON 1 -

SPEED CATEGORY	- STABILITY CATEGORIES - (1)	(2)	(3)	(4)	(5)	(6)
1	4.10000+006	3.15000+006	2.52000+006	1.26000+006	.00000	6.31000+005
2	5.05000+006	4.10000+006	3.78000+006	3.15000+006	2.52000+006	1.58000+006
3	.00000	5.05000+006	4.42000+006	4.10000+006	3.15000+006	.00000
4	.00000	.00000	5.05000+006	5.05000+006	.00000	.00000
5	.00000	.00000	5.99000+006	5.99000+006	.00000	.00000
6	.00000	.00000	6.94000+006	6.94000+006	.00000	.00000

WARNING - DISTANCE BETWEEN SOURCE 7 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED

X		8	VOLUME	79.00	.00	11.30	.00	STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 4.70
								STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 1.00

- PARTICULATE CATEGORIES -

	1	2	3	4	5	6
FALL VELOCITY (MPS)	.0010	.0070	.0190	.0370	.0610	.0990
MASS FRACTION	.1000	.4000	.2800	.1200	.0600	.0400
REFLECTION COEFFICIENT	1.0000	.8200	.7200	.6500	.5900	.5000

- SOURCE STRENGTHS (GRAMS / SECOND) - SEASON 1 -

SPEED CATEGORY	- STABILITY CATEGORIES - (1)	(2)	(3)	(4)	(5)	(6)
1	4.10000+006	3.15000+006	2.52000+006	1.26000+006	.00000	6.31000+005
2	5.05000+006	4.10000+006	3.78000+006	3.15000+006	2.52000+006	1.58000+006
3	.00000	5.05000+006	4.42000+006	4.10000+006	3.15000+006	.00000
4	.00000	.00000	5.05000+006	5.05000+006	.00000	.00000
5	.00000	.00000	5.99000+006	5.99000+006	.00000	.00000
6	.00000	.00000	6.94000+006	6.94000+006	.00000	.00000

WARNING - DISTANCE BETWEEN SOURCE 8 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED

- SOURCE INPUT DATA -

C A R D	T A P E	SOURCE NUMBER	SOURCE TYPE	X COORDINATE (M)	Y COORDINATE (M)	EMISSION HEIGHT (M)	BASE ELEV-ATION (M)	/ - SOURCE DETAILS DEPENDING ON TYPE -
X		9	VOLUME	89.00	.00	13.00	.00	/ STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 4.70
								/ STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 1.00

- PARTICULATE CATEGORIES -

	1	2	3	4	5	6
FALL VELOCITY (MPS)	.0010	.0070	.0190	.0370	.0610	.0990
MASS FRACTION	.1000	.4000	.2800	.1200	.0600	.0400
REFLECTION COEFFICIENT	1.0000	.8200	.7200	.6500	.5900	.5000

- SOURCE STRENGTHS (GRAMS) -

- SEASON 1 -

SPEED CATEGORY	(1)	(2)	(3)	(4)	(5)	(6)
1	4.10000+006	3.15000+006	2.52000+006	1.26000+006	.00000	6.31000+005
2	5.05000+006	4.10000+006	3.78000+006	3.15000+006	2.52000+006	1.58000+006
3	.00000	5.05000+006	4.42000+006	4.10000+006	3.15000+006	.00000
4	.00000	.00000	5.05000+006	5.05000+006	.00000	.00000
5	.00000	.00000	5.99000+006	5.99000+006	.00000	.00000
6	.00000	.00000	6.94000+006	6.94000+006	.00000	.00000

WARNING - DISTANCE BETWEEN SOURCE 9 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED

X		10	VOLUME	99.00	.00	14.80	.00	STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 4.70
								STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 1.00

- PARTICULATE CATEGORIES -

	1	2	3	4	5	6
FALL VELOCITY (MPS)	.0010	.0070	.0190	.0370	.0610	.0990
MASS FRACTION	.1000	.4000	.2800	.1200	.0600	.0400
REFLECTION COEFFICIENT	1.0000	.8200	.7200	.6500	.5900	.5000

- SOURCE STRENGTHS (GRAMS) -

- SEASON 1 -

SPEED CATEGORY	(1)	(2)	(3)	(4)	(5)	(6)
1	4.10000+006	3.15000+006	2.52000+006	1.26000+006	.00000	6.31000+005
2	5.05000+006	4.10000+006	3.78000+006	3.15000+006	2.52000+006	1.58000+006
3	.00000	5.05000+006	4.42000+006	4.10000+006	3.15000+006	.00000
4	.00000	.00000	5.05000+006	5.05000+006	.00000	.00000
5	.00000	.00000	5.99000+006	5.99000+006	.00000	.00000
6	.00000	.00000	6.94000+006	6.94000+006	.00000	.00000

WARNING - DISTANCE BETWEEN SOURCE 10 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED

WARNING - DISTANCE BETWEEN SOURCE 10 AND POINT X,Y= 200.00, .00 IS LESS THAN PERMITTED

- SOURCE INPUT DATA -

C A R D	T A P E	SOURCE NUMBER	SOURCE TYPE	X COORDINATE (M)	Y COORDINATE (M)	EMISSION HEIGHT (M)	BASE ELEVATION (M)	/ / / /	- SOURCE DETAILS DEPENDING ON TYPE -
X		11	VOLUME	109.00	.00	16.50	.00		

STANDARD DEVIATION OF THE CROSSWIND SOURCE DISTRIBUTION (M)= 4.70
STANDARD DEVIATION OF THE VERTICAL SOURCE DISTRIBUTION (M)= 1.00

- PARTICULATE CATEGORIES -

	1	2	3	4	5	6
FALL VELOCITY (MPS)	.0010	.0070	.0190	.0370	.0610	.0990
MASS FRACTION	.1000	.4000	.2800	.1200	.0600	.0400
REFLECTION COEFFICIENT	1.0000	.8200	.7200	.6500	.5900	.5000

- SOURCE STRENGTHS (GRAMS) -

- SEASON 1 -

SPEED CATEGORY	- STABILITY CATEGORIES - (1)	(2)	(3)	(4)	(5)	(6)
1	4.10000+006	3.15000+006	2.52000+006	1.26000+006	.00000	6.31000+005
2	5.05000+006	4.10000+006	3.78000+006	3.15000+006	2.52000+006	1.58000+006
3	.00000	5.05000+006	4.42000+006	4.10000+006	3.15000+006	.00000
4	.00000	.00000	5.05000+006	5.05000+006	.00000	.00000
5	.00000	.00000	5.99000+006	5.99000+006	.00000	.00000
6	.00000	.00000	6.94000+006	6.94000+006	.00000	.00000

WARNING - DISTANCE BETWEEN SOURCE 11 AND POINT X,Y= .00, .00 IS LESS THAN PERMITTED
WARNING - DISTANCE BETWEEN SOURCE 11 AND POINT X,Y= 200.00, .00 IS LESS THAN PERMITTED

** ANNUAL GROUND LEVEL DEPOSITION (GRAMS PER SQUARE METER) DUE TO SOURCE 1 **

- GRID SYSTEM RECEPTORS -

- X AXIS (DISTANCE, METERS) -

Y AXIS (DISTANCE, METERS)	.000	200.000	400.000	600.000	800.000	1000.000	1250.000	1500.000	2000.000
				- DEPOSITION -					
3000.000	2.209485	2.044613	1.922703	1.802229	1.673252	1.544694	1.401376	1.236737	.984170
2000.000	4.168499	3.702104	3.364983	3.015514	2.681500	2.392026	2.090023	1.794936	1.341951
1500.000	6.991328	5.965113	5.121821	4.301331	3.728991	3.293262	2.763971	2.423046	2.093123
1250.000	11.050865	9.102630	7.399745	5.870071	4.991862	4.164119	3.556837	3.257988	2.645530
1000.000	19.885311	15.406806	11.856076	9.096661	7.168532	6.056642	5.240338	4.533663	3.313753
800.000	36.269566	26.167227	18.136390	13.555637	10.746755	9.073583	7.327381	5.857664	4.232478
600.000	78.343783	49.378666	31.810552	23.478791	17.970065	13.790590	10.015278	8.224349	5.604049
400.000	223.808716	106.297189	69.523837	44.972535	29.809546	22.972790	16.267778	11.875471	7.063783
200.000	1096.953644	392.371552	165.853096	104.991689	61.159012	37.522183	23.432873	15.733077	8.510150
.000	.000000	2323.446625	555.181252	207.762184	99.725886	56.012347	31.489052	20.052955	10.109834
-200.000	2147.008942	685.955971	308.714260	159.084352	83.430305	48.481188	28.536061	18.553629	9.548764
-400.000	522.029289	193.666315	126.571017	83.950354	56.261406	39.690590	24.696393	16.675395	8.929880
-600.000	196.798536	106.682861	59.716197	43.355418	33.626699	25.872122	18.924669	14.458414	8.137435
-800.000	94.839135	61.301114	35.193259	25.706248	19.975269	16.981000	13.807741	10.993648	7.265385
-1000.000	53.388054	37.895935	24.742311	17.683794	13.664594	11.334692	9.803329	8.404787	5.956101
-1250.000	29.912083	23.087446	16.801380	11.747612	9.757218	7.924482	6.493009	5.870654	4.669054
-1500.000	19.115989	15.462472	12.104713	8.905417	7.177783	6.128132	4.930540	4.198903	3.595641
-2000.000	9.560449	8.217962	7.031328	5.803994	4.632301	3.952537	3.403614	2.885852	2.123993
-3000.000	3.703823	3.382072	3.103280	2.822104	2.524887	2.229552	1.896510	1.674710	1.349737

- DISCRETE RECEPTORS -

X RANGE (METERS)	Y AZIMUTH BEARING (DEGREES)	DEPOSITION	X RANGE (METERS)	Y AZIMUTH BEARING (DEGREES)	DEPOSITION	X RANGE (METERS)	Y AZIMUTH BEARING (DEGREES)	DEPOSITION
2108.0	14.0	3.091886						

- 10 CONTRIBUTING VALUES TO PROGRAM DETERMINED MAXIMUM 10 OF COMBINED SOURCES 1,

X COORDINATE (METERS)	Y COORDINATE (METERS)	DEPOSITION
200.00	.00	2323.446625
.00	-200.00	2147.008942
.00	200.00	1096.953644
200.00	-200.00	685.955971
400.00	.00	555.181252
.00	-400.00	522.029289
200.00	200.00	392.371552
400.00	-200.00	308.714260
.00	400.00	223.808716

** ANNUAL GROUND LEVEL DEPOSITION (GRAMS PER SQUARE METER) DUE TO SOURCE 1 (CONT.) **

- 10 CONTRIBUTING VALUES TO PROGRAM DETERMINED MAXIMUM 10 OF COMBINED SOURCES 1,

X COORDINATE (METERS)	Y COORDINATE (METERS)	DEPOSITION
600.00	.00	207.762184

**** ISCLT ********** HYPOTHETICAL POTASH PROCESSING PLANT ******** PAGE 14 ****

** ANNUAL GROUND LEVEL DEPOSITION (GRAMS PER SQUARE METER) FROM COMBINED SOURCES 2, -16,

- GRID SYSTEM RECEPTORS -
- X AXIS (DISTANCE, METERS) -
- DEPOSITION -

Y AXIS (DISTANCE, METERS)	.000	200.000	400.000	600.000	800.000	1000.000	1250.000	1500.000	2000.000
3000.000	.009662	.009249	.008728	.008174	.007650	.007090	.006410	.005709	.004462
2000.000	.017755	.016594	.015183	.013766	.012338	.010965	.009497	.008078	.005692
1500.000	.028708	.026167	.023003	.019526	.016705	.014692	.012233	.010089	.007057
1250.000	.044910	.040150	.033779	.026938	.022244	.018444	.014564	.013755	.011632
1000.000	.079578	.069661	.054405	.041130	.032275	.024771	.022204	.019737	.014813
800.000	.144978	.120988	.087119	.062386	.044236	.038645	.032308	.026172	.018658
600.000	.307816	.240218	.150566	.097595	.078460	.062275	.045833	.035894	.024931
400.000	.851850	.582227	.293641	.205685	.141545	.101368	.074189	.053989	.031618
200.000	4.069319	1.765424	.841389	.518535	.298628	.184018	.110339	.072873	.038417
.000	.000000	11.241953	3.224391	1.119008	.510062	.275324	.149801	.093316	.045834
-200.000	5.267834	2.628258	1.468519	.814824	.407879	.234109	.132817	.084890	.042795
-400.000	1.523628	1.104223	.528881	.370931	.254712	.176805	.111294	.074528	.039356
-600.000	.625691	.514511	.281069	.184597	.144236	.112796	.082316	.062316	.035367
-800.000	.315854	.275792	.175240	.120604	.085441	.072023	.059138	.047003	.031151
-1000.000	.183135	.165179	.117037	.081260	.063541	.048459	.041434	.035661	.025291
-1250.000	.105423	.097456	.076363	.055629	.044567	.036379	.027770	.024752	.019764
-1500.000	.068359	.064099	.053038	.041350	.032511	.027895	.022486	.018042	.015222
-2000.000	.034972	.033443	.029584	.025567	.021419	.017979	.015499	.013132	.009185
-3000.000	.013963	.013625	.012767	.011821	.010908	.009905	.008665	.007641	.006115

- DISCRETE RECEPTORS -

X RANGE (METERS)	Y AZIMUTH BEARING (DEGREES)	DEPOSITION	X RANGE (METERS)	Y AZIMUTH BEARING (DEGREES)	DEPOSITION	X RANGE (METERS)	Y AZIMUTH BEARING (DEGREES)	DEPOSITION
2108.0	14.0	.014063						

- PROGRAM DETERMINED MAXIMUM 10 VALUES -

X COORDINATE (METERS)	Y COORDINATE (METERS)	DEPOSITION
200.00	.00	11.241953
.00	-200.00	5.267834
.00	200.00	4.069319
400.00	.00	3.224391
200.00	-200.00	2.628258
200.00	200.00	1.765424
.00	-400.00	1.523628
400.00	-200.00	1.468519
600.00	.00	1.119008

** ANNUAL GROUND LEVEL DEPOSITION (GRAMS PER SQUARE METER) (CONT.) FROM COMBINED SOURCES 2, -16,

- PROGRAM DETERMINED MAXIMUM 10 VALUES -

X COORDINATE (METERS)	Y COORDINATE (METERS)	DEPOSITION
200.00	-400.00	1.104223

********** END OF ISCLT PROGRAM, 11 SOURCES PROCESSED **********

$XQT U.ABS18A

PTMAX (VERSION 75128)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 4. MODELS OF HISTORICAL INTEREST.
IN UNAMAP (VERSION 4) DEC 80
SOURCE: FILE 18 ON UNAMAP MAGNETIC TAPE FROM NTIS.

DBT52 VERSION 75128
TEST OF DBT52 (BATCH VERSION OF PTMAX)

ANALYSIS OF CONCENTRATION AS A FUNCTION OF STABILITY AND WIND SPEED. 1971 VERSION, D. B. TURNER.

EMISSION RATE (G/SEC) = 287.00, PHY HT (M) = 30.00, STACK TEMP (DEG.K) = 350.00, STACK VEL (M/SEC) = 20.00,
DIAM (M) = .60, VOLUME FLOW (CU M/SEC) = 5.65

WIND SPEED (M/SEC)	.5	.8	1.0	1.5	2.0	2.5	3.0	4.0	5.0
STABILITY = 1									
MAX CONC (G/CU M)	7.7219-003	7.9789-003	8.0089-003	7.7614-003	7.3243-003	6.8569-003	6.4449-003		
DIST OF MAX (KM)	.486	.397	.357	.297	.264	.243	.229		
PLUME HEIGHT (M)	124.6	89.1	77.3	61.5	53.6	48.9	45.8		
STABILITY = 2									
MAX CONC (G/CU M)	5.9313-003	6.8110-003	7.0592-003	7.1534-003	6.9108-003	6.5671-003	6.2193-003	5.5448-003	4.9602-003
DIST OF MAX (KM)	.858	.632	.555	.445	.387	.352	.329	.300	.283
PLUME HEIGHT (M)	124.6	89.1	77.3	61.5	53.6	48.9	45.8	41.8	39.5
STABILITY = 3									
MAX CONC (G/CU M)					6.9161-003	6.6545-003	6.3366-003	5.6913-003	5.1156-003
DIST OF MAX (KM)					.593	.536	.498	.452	.424
PLUME HEIGHT (M)					53.6	48.9	45.8	41.8	39.5
STABILITY = 4									
MAX CONC (G/CU M)	2.7075-003	3.8535-003	4.3419-003	5.0152-003	5.2361-003	5.2049-003	5.0042-003	4.5535-003	4.1275-003
DIST OF MAX (KM)	4.218	2.469	1.978	1.387	1.120	.980	.912	.827	.777
PLUME HEIGHT (M)	124.6	89.1	77.3	61.5	53.6	48.9	45.8	41.8	39.5
STABILITY = 5									
MAX CONC (G/CU M)					2.8291-003	2.4885-003	2.2350-003	1.8774-003	1.6334-003
DIST OF MAX (KM)					2.547	2.403	2.294	2.139	2.031
PLUME HEIGHT (M)					61.0	58.7	57.0	54.6	52.8
STABILITY = 6									
MAX CONC (G/CU M)					2.4535-003	2.1665-003	1.9514-003	1.6456-003	1.4270-003
DIST OF MAX (KM)					4.410	4.120	3.906	3.603	3.434
PLUME HEIGHT (M)					55.7	53.9	52.4	50.4	48.9

WIND SPEED (M/SEC)	7.0	10.0	12.0	15.0	20.0
STABILITY = 3					
MAX CONC (G/CU M)	4.2117-003	3.3027-003	2.8817-003	2.4164-003	
DIST OF MAX (KM)	.392	.368	.359	.350	
PLUME HEIGHT (M)	36.8	34.7	33.9	33.2	
STABILITY = 4					
MAX CONC (G/CU M)	3.4331-003	2.7143-003	2.3762-003	1.9993-003	1.5790-003
DIST OF MAX (KM)	.719	.676	.660	.643	.626
PLUME HEIGHT (M)	36.8	34.7	33.9	33.2	32.4

(1) THE DISTANCE TO THE POINT OF MAXIMUM CONCENTRATION IS SO GREAT THAT THE SAME STABILITY IS NOT LIKELY TO PERSIST LONG ENOUGH FOR THE PLUME TO TRAVEL THIS FAR.

(2) THE PLUME IS OF SUFFICIENT HEIGHT THAT EXTREME CAUTION SHOULD BE USED IN INTERPRETING THIS COMPUTATION AS THIS STABILITY TYPE MAY NOT EXIST TO THIS HEIGHT. ALSO WIND SPEED VARIATIONS WITH HEIGHT MAY EXERT A DOMINATING INFLUENCE.

(3) NO COMPUTATION WAS ATTEMPTED FOR THIS HEIGHT AS THE POINT OF MAXIMUM CONCENTRATION IS GREATER THAN 100 KILOMETERS FROM THE SOURCE.

JXQT U.ABS18B

PTDIS (VERSION 78040)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 4. MODELS OF HISTORICAL INTEREST.
IN UNAMAP (VERSION 4) DEC 80
SOURCE: FILE 18 ON UNAMAP MAGNETIC TAPE FROM NTIS.

DBT43 VERSION 78010
TEST OF DBT53 (BATCH VERSION OF PTDIS)

CONCENTRATION ESTIMATES. DBT43.

CARE SHOULD BE EXERCISED IN THE INTERPRETATION OF THESE CALCULATED CONCENTRATIONS. CONCENTRATION ESTIMATES MAY BE EXPECTED TO BE WITHIN A FACTOR OF THREE FOR 1) ALL STABILITIES FOR DISTANCES OF TRAVEL OUT TO A FEW HUNDRED METERS, 2) NEUTRAL TO MODERATELY UNSTABLE CONDITIONS FOR DISTANCES OUT TO A FEW KILOMETERS, AND 3) UNSTABLE CONDITIONS IN THE LOWER 1000 METERS OF THE ATMOSPHERE WITH A MARKED INVERSION ABOVE FOR DISTANCES OUT TO 10 KILOMETERS OR MORE. FOR OTHER CONDITIONS THE ESTIMATES BECOME LESS RELIABLE FOR EXTREMES OF STABILITY AND AS TRAVEL DISTANCE INCREASES.

WIND SPEED = 5.0 M/SEC, STABILITY CLASS = 3, HEIGHT OF MIXING = 700. METERS, AMBIENT TEMPERATURE = .0 DEG K.

EMISSION RATE (G/SEC)	PHYSICAL HEIGHT (M)	STACK GAS TEMP (DEG-K)	STACK GAS VELOCITY (M/SEC)	STACK DIAMETER (M)	STACK GAS VOL FLOW (M**3/SEC)	BRIGGS -F-	HEIGHT OF FINAL RISE (M)	DIST OF FINAL RISE (KM)
287.00	30.0	350.0	20.00	.60	5.65	2.87	39.5	.095

DISTANCE KM	EFFECTIVE HEIGHT(M)	CONCENTRATION G/M**3	SIGY M.	SIGZ M.	CHI * U / Q SEC/M**3	MDUM	ANDUM
.100	39.5	1.55-007	12.46	7.44	2.69-009	4	1.
.200	39.5	1.06-003	23.62	14.03	1.84-005	4	1.
.300	39.5	3.98-003	34.29	20.33	6.94-005	4	1.
.500	39.5	4.91-003	54.77	32.43	8.55-005	4	1.
.552	39.5	4.63-003	59.96	35.51	8.06-005	4	1.
.500	39.5	4.91-003	54.77	32.43	8.55-005	4	1.
.600	39.5	4.34-003	64.71	38.32	7.55-005	4	1.
.700	39.5	3.73-003	74.49	44.12	6.49-005	4	1.
.800	39.5	3.18-003	84.14	49.85	5.55-005	4	1.
.900	39.5	2.73-003	93.68	55.52	4.75-005	4	1.
1.000	39.5	2.35-003	103.11	61.14	4.10-005	4	1.
2.000	39.5	7.73-004	193.45	115.26	1.35-005	4	1.
3.000	39.5	3.81-004	279.00	167.01	6.64-006	4	1.
5.000	39.5	1.54-004	441.64	266.47	2.68-006	4	1.
7.000	39.5	8.41-005	596.81	362.49	1.46-006	4	1.
10.000	39.5	4.61-005	820.13	502.32	8.03-007	4	2.
15.000	39.5	2.81-005	1175.00	727.85	4.90-007	4	2.
20.000	39.5	2.16-005	1514.57	946.93	3.76-007	4	3.
30.000	39.5	1.51-005	2161.94	1372.09	2.64-007	3	0.
50.000	39.5	9.70-006	3373.06	2189.25	1.69-007	3	0.
70.000	39.5	7.25-006	4510.52	2978.18	1.26-007	3	0.
100.000	39.5	5.34-006	6123.51	4126.98	9.31-008	3	0.

RATIO IS THE HALF-WIDTH OF THE ISOPLETH COMPARED TO THE HALF-WIDTH OF A SECTOR OF 22.5 DEGREES AT THIS DISTANCE.

ISOPLETH VALUES (GRAMS PER CUBIC METER)

1.00000-003 2.00000-005 1.00000-005

DIST. KM.	HALF-WIDTH METERS	RATIO	HALF-WIDTH METERS	RATIO	HALF-WIDTH METERS	RATIO	HALF-WIDTH METERS	RATIO	HALF-WIDTH METERS	RATIO	HALF-WIDTH METERS	RATIO	HALF-WIDTH METERS	RATIO	HALF-WIDTH METERS	RATIO
.100	0.	.000	0.	.000	0.	.000										
.200	8.	.208	67.	1.685	73.	1.826										
.300	58.	.964	112.	1.879	119.	1.997										
.500	98.	.988	182.	1.832	193.	1.944										
.552	105.	.961	198.	1.807	211.	1.918										
.500	98.	.988	182.	1.832	193.	1.944										
.600	111.	.933	213.	1.783	226.	1.894										
.700	121.	.872	241.	1.734	257.	1.845										
.800	129.	.808	268.	1.687	286.	1.799										
.900	133.	.745	294.	1.644	314.	1.756										
1.000	135.	.681	319.	1.604	341.	1.716										
2.000	0.	.000	523.	1.316	571.	1.436										
3.000	0.	.000	678.	1.137	753.	1.263										
5.000	0.	.000	892.	.898	1033.	1.039										
7.000	0.	.000	1012.	.727	1232.	.885										
10.000	0.	.000	1060.	.533	1434.	.721										
15.000	0.	.000	970.	.326	1690.	.567										
20.000	0.	.000	595.	.150	1880.	.473										
30.000	0.	.000	0.	.000	1968.	.330										
50.000	0.	.000	0.	.000	0.	.000										
70.000	0.	.000	0.	.000	0.	.000										
100.000	0.	.000	0.	.000	0.	.000										

WIND SPEED = 3.6 M/SEC, STABILITY CLASS = 5,HEIGHT OF MIXING = 1200. METERS, AMBIENT TEMPERATURE = 298.0 DEG K.

EMISSION RATE (G/SEC)	PHYSICAL HEIGHT (M)	STACK GAS TEMP (DEG-K)	STACK GAS VELOCITY (M/SEC)	STACK DIAMETER (M)	STACK GAS VOL FLOW (M**3/SEC)	BRIGGS -F-	HEIGHT OF FINAL RISE (M)	DIST OF FINAL RISE (KM)
287.00	30.0	350.0	20.00	.60	5.65	2.62	54.8	.441

DISTANCE KM	EFFECTIVE HEIGHT(M)	CONCENTRATION G/M**3	SIGY M.	SIGZ M.	CHI * U / Q SEC/M**3	MDUM	ANDUM
.100	43.2	.00	6.12	3.53	.00	0	0.
.200	51.0	1.13-015	11.63	6.24	1.42-017	1	0.
.300	54.8	4.07-010	16.89	8.70	5.10-012	1	0.
.500	54.8	7.63-006	27.02	12.80	9.57-008	1	0.
.552	54.8	2.31-005	29.58	13.80	2.90-007	1	0.
.500	54.8	7.63-006	27.02	12.80	9.57-008	1	0.
.600	54.8	5.13-005	31.93	14.69	6.44-007	1	0.
.700	54.8	1.69-004	36.77	16.51	2.12-006	1	0.
.800	54.8	3.70-004	41.55	18.27	4.64-006	1	0.
.900	54.8	6.34-004	46.27	19.97	7.95-006	1	0.
1.000	54.8	9.27-004	50.94	21.63	1.16-005	1	0.
2.000	54.8	2.07-003	95.70	33.49	2.60-005	1	0.
3.000	54.8	1.87-003	138.13	42.22	2.35-005	1	0.
5.000	54.8	1.28-003	218.86	55.71	1.61-005	1	0.
7.000	54.8	9.20-004	295.94	66.03	1.15-005	1	0.
10.000	54.8	6.20-004	406.92	79.07	7.78-006	1	0.
15.000	54.8	3.86-004	583.39	95.56	4.84-006	1	0.
20.000	54.8	2.72-004	752.32	109.30	3.41-006	1	0.
30.000	54.8	1.69-004	1074.54	127.31	2.12-006	1	0.

50.000	54.8	9.35-005	1677.72	151.54	1.17-006	1	0.
70.000	54.8	6.40-005	2244.49	167.41	8.03-007	1	0.
100.000	54.8	4.28-005	3048.52	186.04	5.37-007	1	0.

RATIO IS THE HALF-WIDTH OF THE ISOPLETH COMPARED TO THE HALF-WIDTH OF A SECTOR OF 22.5 DEGREES AT THIS DISTANCE.

ISOPLETH VALUES (GRAMS PER CUBIC METER)

1.00000-003 2.00000-005 1.00000-005

DIST. KM.	HALF-WIDTH METERS	RATIO	HALF-WIDTH METERS	RATIO	HALF-WIDTH METERS	RATIO	HALF-WIDTH METERS	RATIO	HALF-WIDTH METERS	RATIO	HALF-WIDTH METERS	RATIO	HALF-WIDTH METERS	RATIO	HALF-WIDTH METERS	RATIO
.100	0.	.000	0.	.000	0.	.000										
.200	0.	.000	0.	.000	0.	.000										
.300	0.	.000	0.	.000	0.	.000										
.500	0.	.000	0.	.000	0.	.000										
.552	0.	.000	16.	.151	39.	.354										
.500	0.	.000	0.	.000	0.	.000										
.600	0.	.000	44.	.372	58.	.489										
.700	0.	.000	76.	.550	88.	.632										
.800	0.	.000	101.	.634	112.	.705										
.900	0.	.000	122.	.683	134.	.748										
1.000	0.	.000	142.	.712	154.	.774										
2.000	116.	.292	292.	.735	313.	.787										
3.000	155.	.261	417.	.699	447.	.750										
5.000	155.	.156	632.	.636	682.	.687										
7.000	0.	.000	819.	.589	890.	.640										
10.000	0.	.000	1067.	.537	1170.	.589										
15.000	0.	.000	1420.	.476	1577.	.529										
20.000	0.	.000	1720.	.433	1934.	.487										
30.000	0.	.000	2221.	.373	2556.	.429										
50.000	0.	.000	2947.	.297	3548.	.357										
70.000	0.	.000	3424.	.246	4325.	.311										
100.000	0.	.000	3763.	.190	5201.	.262										

CONCENTRATION ESTIMATES. DBT43.

CARE SHOULD BE EXERCISED IN THE INTERPRETATION OF THESE CALCULATED CONCENTRATIONS. CONCENTRATION ESTIMATES MAY BE EXPECTED TO BE WITHIN A FACTOR OF THREE FOR 1) ALL STABILITIES FOR DISTANCES OF TRAVEL OUT TO A FEW HUNDRED METERS, 2) NEUTRAL TO MODERATELY UNSTABLE CONDITIONS FOR DISTANCES OUT TO A FEW KILOMETERS, AND 3) UNSTABLE CONDITIONS IN THE LOWER 1000 METERS OF THE ATMOSPHERE WITH A MARKED INVERSION ABOVE FOR DISTANCES OUT TO 10 KILOMETERS OR MORE. FOR OTHER CONDITIONS THE ESTIMATES BECOME LESS RELIABLE FOR EXTREMES OF STABILITY AND AS TRAVEL DISTANCE INCREASES.

WIND SPEED = 5.0 M/SEC, STABILITY CLASS = 3,HEIGHT OF MIXING = 700. METERS, AMBIENT TEMPERATURE = .0 DEG K.

EMISSION RATE (G/SEC) = 287.00, EFFECTIVE HEIGHT (M) = 51.8

DISTANCE KM	EFFECTIVE HEIGHT(M)	CONCENTRATION G/M**3	SIGY M.	SIGZ M.	CHI * U / Q SEC/M**3	MDUM	ANDUM
.100	51.8	5.94-012	12.46	7.44	1.03-013	4	1.
.200	51.8	6.04-005	23.62	14.03	1.05-006	4	1.
.300	51.8	1.02-003	34.29	20.33	1.78-005	4	1.
.500	51.8	2.87-003	54.77	32.43	5.01-005	4	1.
.552	51.8	2.96-003	59.96	35.51	5.16-005	4	1.

.500	51.8	2.87-003	54.77	32.43	5.01-005	4	1.
.600	51.8	2.96-003	64.71	38.32	5.15-005	4	1.
.700	51.8	2.79-003	74.49	44.12	4.86-005	4	1.
.800	51.8	2.54-003	84.14	49.85	4.42-005	4	1.
.900	51.8	2.27-003	93.68	55.52	3.96-005	4	1.
1.000	51.8	2.02-003	103.11	61.14	3.53-005	4	1.
2.000	51.8	7.41-004	193.45	115.26	1.29-005	4	1.
3.000	51.8	3.74-004	279.00	167.01	6.51-006	4	1.
5.000	51.8	1.52-004	441.64	266.47	2.65-006	4	1.
7.000	51.8	8.37-005	596.81	362.49	1.46-006	4	1.
10.000	51.8	4.60-005	820.13	502.32	8.01-007	4	2.
15.000	51.8	2.81-005	1175.00	727.85	4.90-007	4	2.
20.000	51.8	2.16-005	1514.57	946.93	3.76-007	4	3.
30.000	51.8	1.51-005	2161.94	1372.09	2.64-007	3	0.
50.000	51.8	9.70-006	3373.06	2189.25	1.69-007	3	0.
70.000	51.8	7.25-006	4510.52	2978.18	1.26-007	3	0.
100.000	51.8	5.34-006	6123.51	4126.98	9.31-008	3	0.

RATIO IS THE HALF-WIDTH OF THE ISOPLETH COMPARED TO THE HALF-WIDTH OF A SECTOR OF 22.5 DEGREES AT THIS DISTANCE.

ISOPLETH VALUES (GRAMS PER CUBIC METER)

1.00000-003 2.00000-005 1.00000-005

DIST. KM.	HALF-WIDTH METERS	RATIO	HALF-WIDTH METERS	RATIO	HALF-WIDTH METERS	RATIO	HALF-WIDTH METERS	RATIO	HALF-WIDTH METERS	RATIO	HALF-WIDTH METERS	RATIO	HALF-WIDTH METERS	RATIO	HALF-WIDTH METERS	RATIO
.100	0.	.000	0.	.000	0.	.000										
.200	0.	.000	36.	.896	45.	1.139										
.300	7.	.122	97.	1.620	105.	1.757										
.500	80.	.806	173.	1.741	185.	1.858										
.552	89.	.810	190.	1.731	203.	1.847										
.500	80.	.806	173.	1.741	185.	1.858										
.600	96.	.803	205.	1.718	219.	1.834										
.700	107.	.771	235.	1.685	250.	1.800										
.800	115.	.725	262.	1.649	281.	1.763										
.900	121.	.674	289.	1.613	309.	1.727										
1.000	123.	.619	314.	1.578	337.	1.692										
2.000	0.	.000	520.	1.309	568.	1.429										
3.000	0.	.000	676.	1.133	751.	1.260										
5.000	0.	.000	890.	.896	1031.	1.037										
7.000	0.	.000	1010.	.726	1231.	.884										
10.000	0.	.000	1059.	.533	1433.	.721										
15.000	0.	.000	970.	.325	1690.	.567										
20.000	0.	.000	595.	.150	1880.	.473										
30.000	0.	.000	0.	.000	1968.	.330										
50.000	0.	.000	0.	.000	0.	.000										
70.000	0.	.000	0.	.000	0.	.000										
100.000	0.	.000	0.	.000	0.	.000										

CONCENTRATION ESTIMATES. DBT43.

CARE SHOULD BE EXERCISED IN THE INTERPRETATION OF THESE CALCULATED CONCENTRATIONS. CONCENTRATION ESTIMATES MAY BE EXPECTED TO BE WITHIN A FACTOR OF THREE FOR 1) ALL STABILITIES FOR DISTANCES OF TRAVEL OUT TO A FEW HUNDRED METERS, 2) NEUTRAL TO MODERATELY UNSTABLE CONDITIONS FOR DISTANCES OUT TO A FEW KILOMETERS, AND 3) UNSTABLE CONDITIONS IN THE LOWER 1000 METERS OF THE ATMOSPHERE WITH A MARKED INVERSION ABOVE FOR DISTANCES OUT TO 10 KILOMETERS OR MORE.

FOR OTHER CONDITIONS THE ESTIMATES BECOME LESS RELIABLE FOR EXTREMES OF STABILITY AND AS TRAVEL DISTANCE INCREASES.

WIND SPEED = 3.6 M/SEC, STABILITY CLASS = 5,HEIGHT OF MIXING = 1000. METERS, AMBIENT TEMPERATURE = 293.0 DEG K.

EMISSION RATE (G/SEC)	PHYSICAL HEIGHT (M)	STACK GAS TEMP (DEG-K)	STACK GAS VELOCITY (M/SEC)	STACK DIAMETER (M)	STACK GAS VOL FLOW (M**3/SEC)	BRIGGS -F-	HEIGHT OF FINAL RISE (M)	DIST OF FINAL RISE (KM)
530.00	50.0	500.0	20.00	3.00	141.37	182.69	151.6	.437

DISTANCE KM	EFFECTIVE HEIGHT(M)	CONCENTRATION G/M**3	SIGY M.	SIGZ M.	CHI * U / Q SEC/M**3	MDUM	AMDUM
.100	104.3	.00	6.12	3.53	.00	0	0.
.300	151.6	.00	16.89	8.70	.00	0	0.
.500	151.6	.00	27.02	12.80	.00	0	0.
1.000	151.6	9.19-013	50.94	21.63	6.24-015	1	0.
2.000	151.6	5.20-007	95.70	33.49	3.53-009	1	0.
3.000	151.6	1.28-005	138.13	42.22	8.68-008	1	0.
5.000	151.6	9.49-005	218.86	55.71	6.44-007	1	0.
8.000	151.6	1.99-004	333.47	70.64	1.35-006	1	0.
10.000	151.6	2.32-004	406.92	79.07	1.58-006	1	0.
20.000	151.6	2.18-004	752.32	109.30	1.48-006	1	0.
30.000	151.6	1.69-004	1074.54	127.31	1.15-006	1	0.
50.000	151.6	1.12-004	1677.72	151.54	7.59-007	1	0.
50.000	151.6	1.12-004	1677.72	151.54	7.59-007	1	0.

WIND SPEED = 3.6 M/SEC, STABILITY CLASS = 5,HEIGHT OF MIXING = 5000. METERS, AMBIENT TEMPERATURE = 293.0 DEG K.

EMISSION RATE (G/SEC)	PHYSICAL HEIGHT (M)	STACK GAS TEMP (DEG-K)	STACK GAS VELOCITY (M/SEC)	STACK DIAMETER (M)	STACK GAS VOL FLOW (M**3/SEC)	BRIGGS -F-	HEIGHT OF FINAL RISE (M)	DIST OF FINAL RISE (KM)
530.00	50.0	500.0	20.00	3.00	141.37	182.69	151.6	.437

DISTANCE KM	EFFECTIVE HEIGHT(M)	CONCENTRATION G/M**3	SIGY M.	SIGZ M.	CHI * U / Q SEC/M**3	MDUM	AMDUM
.100	104.3	.00	6.12	3.53	.00	0	0.
.300	151.6	.00	16.89	8.70	.00	0	0.
.500	151.6	.00	27.02	12.80	.00	0	0.
1.000	151.6	9.19-013	50.94	21.63	6.24-015	1	0.
2.000	151.6	5.20-007	95.70	33.49	3.53-009	1	0.
3.000	151.6	1.28-005	138.13	42.22	8.68-008	1	0.
5.000	151.6	9.49-005	218.86	55.71	6.44-007	1	0.
8.000	151.6	1.99-004	333.47	70.64	1.35-006	1	0.
10.000	151.6	2.32-004	406.92	79.07	1.58-006	1	0.
20.000	151.6	2.18-004	752.32	109.30	1.48-006	1	0.
30.000	151.6	1.69-004	1074.54	127.31	1.15-006	1	0.
50.000	151.6	1.12-004	1677.72	151.54	7.59-007	1	0.
50.000	151.6	1.12-004	1677.72	151.54	7.59-007	1	0.

WIND SPEED = 3.6 M/SEC, STABILITY CLASS = 5,HEIGHT OF MIXING = 1000. METERS, AMBIENT TEMPERATURE = 293.0 DEG K.

EMISSION RATE (G/SEC)	PHYSICAL HEIGHT (M)	STACK GAS TEMP (DEG-K)	STACK GAS VELOCITY (M/SEC)	STACK DIAMETER (M)	STACK GAS VOL FLOW (M**3/SEC)	BRIGGS -F-	HEIGHT OF FINAL RISE (M)	DIST OF FINAL RISE (KM)

530.00	50.0	500.0	20.00	3.00	141.37	182.69	151.6	.437

DISTANCE KM	EFFECTIVE HEIGHT(M)	CONCENTRATION G/M**3	SIGY M.	SIGZ M.	CHI * U / Q SEC/M**3	MDUM	ANDUM
.100	104.3	.00	6.12	3.53	.00	0	0.
.300	151.6	.00	16.89	8.70	.00	0	0.
.500	151.6	.00	27.02	12.80	.00	0	0.
1.000	151.6	9.19-013	50.94	21.63	6.24-015	1	0.
2.000	151.6	5.20-007	95.70	33.49	3.53-009	1	0.
3.000	151.6	1.28-005	138.13	42.22	8.68-008	1	0.
5.000	151.6	9.49-005	218.86	55.71	6.44-007	1	0.
8.000	151.6	1.99-004	333.47	70.64	1.35-006	1	0.
10.000	151.6	2.32-004	406.92	79.07	1.58-006	1	0.
20.000	151.6	2.18-004	752.32	109.30	1.48-006	1	0.
30.000	151.6	1.69-004	1074.54	127.31	1.15-006	1	0.
50.000	151.6	1.12-004	1677.72	151.54	7.59-007	1	0.
50.000	151.6	1.12-004	1677.72	151.54	7.59-007	1	0.

WIND SPEED = 3.6 M/SEC, STABILITY CLASS = 5,HEIGHT OF MIXING = 5000. METERS, AMBIENT TEMPERATURE = 293.0 DEG K.

EMISSION RATE (G/SEC)	PHYSICAL HEIGHT (M)	STACK GAS TEMP (DEG-K)	STACK GAS VELOCITY (M/SEC)	STACK DIAMETER (M)	STACK GAS VOL FLOW (M**3/SEC)	BRIGGS -F-	HEIGHT OF FINAL RISE (M)	DIST OF FINAL RISE (KM)
530.00	50.0	500.0	20.00	3.00	141.37	182.69	151.6	.437

DISTANCE KM	EFFECTIVE HEIGHT(M)	CONCENTRATION G/M**3	SIGY M.	SIGZ M.	CHI * U / Q SEC/M**3	MDUM	ANDUM
.100	104.3	.00	6.12	3.53	.00	0	0.
.300	151.6	.00	16.89	8.70	.00	0	0.
.500	151.6	.00	27.02	12.80	.00	0	0.
1.000	151.6	9.19-013	50.94	21.63	6.24-015	1	0.
2.000	151.6	5.20-007	95.70	33.49	3.53-009	1	0.
3.000	151.6	1.28-005	138.13	42.22	8.68-008	1	0.
5.000	151.6	9.49-005	218.86	55.71	6.44-007	1	0.
8.000	151.6	1.99-004	333.47	70.64	1.35-006	1	0.
10.000	151.6	2.32-004	406.92	79.07	1.58-006	1	0.
20.000	151.6	2.18-004	752.32	109.30	1.48-006	1	0.
30.000	151.6	1.69-004	1074.54	127.31	1.15-006	1	0.
50.000	151.6	1.12-004	1677.72	151.54	7.59-007	1	0.
50.000	151.6	1.12-004	1677.72	151.54	7.59-007	1	0.

JXQT U.ABS18C

PTMTP (VERSION 78030)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 4. MODELS OF HISTORICAL INTEREST.
IN UNAMAP (VERSION 4) DEC 80
SOURCE: FILE 18 ON UNAMAP MAGNETIC TAPE FROM NTIS.

DBT51 VERSION 78010
TEST OF DBT51 (BATCH VERSION OF PTMTP)

SOURCES

NO	Q (G/SEC)	HP (M)	TS (DEG-K)	VS (M/SEC)	D(M)	VF(M**3/SEC)	R (KM)	S (KM)
1.	287.00	30.0	350.0	20.0	.60	.0	1.000	.000
2.	287.00	30.0	350.0	20.0	.60	.0	1.050	.000
3.	287.00	30.0	350.0	20.0	.60	.0	1.100	.000
4.	287.00	30.0	350.0	20.0	.60	.0	1.150	.000

RECEPTORS

NO.	RREC(KM)	SREC(KM)	Z (M)
1.	.800	.000	.0
2.	1.020	.000	.0
3.	1.070	.000	.0
4.	1.120	.000	.0
5.	1.170	.000	.0
6.	1.200	.000	.0
7.	1.300	.000	.0
8.	1.500	.000	.0
9.	1.500	.000	.0
10.	1.600	.000	.0
11.	1.700	.000	.0
12.	1.800	.000	.0
13.	1.900	.000	.0
14.	2.000	.000	.0

METEOROLOGY

NO.	THETA(DEG)	U (M/SEC)	KST	HL (M)	T (DEG-K)	P (MB)
1.	265.	5.0	3	700.	293.0	997.0

RECEPTOR NUMBER

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
SOURCE FINAL HGT	PARTIAL CONCENTRATIONS (G/M**3)										
1. 39.5	.000	.000	5.020-012	4.347-006	2.688-004	7.868-004	2.957-003	3.578-003	3.578-003	3.135-003	2.673-003
2. 39.5	.000	.000	.000	5.020-012	4.347-006	8.557-005	1.966-003	3.724-003	3.724-003	3.369-003	2.899-003
3. 39.5	.000	.000	.000	.000	5.020-012	1.105-007	7.868-004	3.741-003	3.741-003	3.578-003	3.135-003
4. 39.5	.000	.000	.000	.000	.000	2.570-019	8.557-005	3.527-003	3.527-003	3.724-003	3.369-003
TOTAL CONCENTRATION (G/M**3)											
	.000	.000	5.020-012	4.347-006	2.732-004	8.725-004	5.795-003	1.457-002	1.457-002	1.381-002	1.208-002

RECEPTOR NUMBER

	12.	13.	14.
SOURCE	FINAL HGT	PARTIAL CONCENTRATIONS (G/M**3)	
1.	39.5	2.267-003	1.930-003	1.654-003
2.	39.5	2.462-003	2.090-003	1.785-003
3.	39.5	2.673-003	2.267-003	1.930-003
4.	39.5	2.899-003	2.462-003	2.090-003

TOTAL CONCENTRATION (G/M**3)

1.030-002 8.748-003 7.458-003

* * * M E T E O R O L O G Y * * *

NO.	THETA(DEG)	U (M/SEC)	KST	HL (M)	T (DEG-K)	P (MB)
2.	270.	5.0	3	700.	293.0	997.0

* * * R E C E P T O R N U M B E R * * *

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
SOURCE	FINAL HGT	PARTIAL CONCENTRATIONS (G/M**3)									
1.	39.5	.000	.000	7.282-012	5.959-006	3.616-004	1.055-003	3.983-003	4.907-003	4.907-003	4.336-003	3.727-003
2.	39.5	.000	.000	.000	7.282-012	5.959-006	1.156-004	2.639-003	5.084-003	5.084-003	4.640-003	4.026-003
3.	39.5	.000	.000	.000	.000	7.282-012	1.546-007	1.055-003	5.083-003	5.083-003	4.907-003	4.336-003
4.	39.5	.000	.000	.000	.000	.000	4.114-019	1.156-004	4.771-003	4.771-003	5.084-003	4.640-003

TOTAL CONCENTRATION (G/M**3)

.000 .000 7.282-012 5.959-006 3.676-004 1.171-003 7.793-003 1.985-002 1.985-002 1.897-002 1.673-002

* * * R E C E P T O R N U M B E R * * *

	12.	13.	14.
SOURCE	FINAL HGT	PARTIAL CONCENTRATIONS (G/M**3)	
1.	39.5	3.184-003	2.729-003	2.353-003
2.	39.5	3.445-003	2.946-003	2.532-003
3.	39.5	3.727-003	3.184-003	2.729-003
4.	39.5	4.026-003	3.445-003	2.946-003

TOTAL CONCENTRATION (G/M**3)

1.438-002 1.230-002 1.056-002

* * * M E T E O R O L O G Y * * *

NO.	THETA(DEG)	U (M/SEC)	KST	HL (M)	T (DEG-K)	P (MB)
3.	275.	5.0	3	700.	293.0	997.0

RECEPTOR NUMBER

SOURCE	FINAL HGT	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
		PARTIAL CONCENTRATIONS (G/M**3)										
1.	39.5	.000	.000	5.006-012	4.336-006	2.682-004	7.850-004	2.950-003	3.570-003	3.570-003	3.127-003	2.666-003
2.	39.5	.000	.000	.000	5.006-012	4.336-006	8.538-005	1.961-003	3.715-003	3.715-003	3.361-003	2.892-003
3.	39.5	.000	.000	.000	.000	5.006-012	1.102-007	7.850-004	3.732-003	3.732-003	3.570-003	3.127-003
4.	39.5	.000	.000	.000	.000	.000	2.561-019	8.538-005	3.519-003	3.519-003	3.715-003	3.361-003
		TOTAL CONCENTRATION (G/M**3)										
		.000	.000	5.006-012	4.336-006	2.726-004	8.705-004	5.782-003	1.454-002	1.454-002	1.377-002	1.205-002

RECEPTOR NUMBER

SOURCE	FINAL HGT	12.	13.	14.
		PARTIAL CONCENTRATIONS (G/M**3)		
1.	39.5	2.261-003	1.925-003	1.649-003
2.	39.5	2.455-003	2.085-003	1.780-003
3.	39.5	2.666-003	2.261-003	1.925-003
4.	39.5	2.892-003	2.455-003	2.085-003
		TOTAL CONCENTRATION (G/M**3)		
		1.027-002	8.726-003	7.438-003

AVERAGE CONCENTRATIONS FOR 3 HOURS.

*** RECEPTOR NUMBER ***

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
SOURCE	PARTIAL CONCENTRATIONS (G/M**3)										
1.	.000	.000	5.769-012	4.881-006	2.995-004	8.758-004	3.297-003	4.018-003	4.018-003	3.533-003	3.022-003
2.	.000	.000	.000	5.769-012	4.881-006	9.552-005	2.189-003	4.175-003	4.175-003	3.790-003	3.273-003
3.	.000	.000	.000	.000	5.769-012	1.251-007	8.758-004	4.186-003	4.186-003	4.018-003	3.533-003
4.	.000	.000	.000	.000	.000	3.082-019	9.552-005	3.939-003	3.939-003	4.175-003	3.790-003
	TOTAL CONCENTRATION (G/M**3)										
	.000	.000	5.769-012	4.881-006	3.044-004	9.714-004	6.457-003	1.632-002	1.632-002	1.552-002	1.362-002

*** RECEPTOR NUMBER ***

	12.	13.	14.
SOURCE	PARTIAL CONCENTRATIONS (G/M**3)		
1.	2.571-003	2.194-003	1.885-003
2.	2.787-003	2.374-003	2.032-003
3.	3.022-003	2.571-003	2.194-003
4.	3.273-003	2.787-003	2.374-003
	TOTAL CONCENTRATION (G/M**3)		
	1.165-002	9.926-003	8.485-003

dXQT U.ABS19A

BLP (VERSION 80200)
AN AIR QUALITY DISPERSION MODEL IN
SECTION 1. MODELS FOR EVALUATION.
IN UNAMAP (VERSION 4) DEC 80
SOURCE: FILE 19 ON UNAMAP MAGNETIC TAPE FROM NTIS.

BLP -- MULTIPLE BUOYANT LINE AND POINT SOURCE DISPERSION MODEL VERSION 2.0 LEVEL 800909

****

BLP VERSION 2.0 TEST CASE
$GEM
NLINES = 4,NPTS = 3,NREC = 0,LINPUT = F,LUTMS = T,LPART = T,LDOWNW = T,LSHEAR = T,LTRANS = T,
TCOR = .90000000+002
$END
$RISE
L = .44720000+003,HB = .15000000+002,HW = .20000000+002,WM = .25000000+001,FPRIME = .30000000+003,DX = .50700000+002
$END
$RCEPT
RXBEG = .45499999999999999+006,RYBEG = .41719999999999999+007,RXEND = .46499999999999999+006,RYEND = .41770000000000000+007,
RDX = .10000000+004,RDY = .10000000+004
$END
$METIM
ZMEAS = .10000000+002,
DTHTA = .20000000-001, .35000000-001,
PEXP = .10000000+000, .15000000+000, .20000000+000, .25000000+000, .30000000+000, .30000000+000,IDSURF = 0,
IYSURF = 0,IDUPER = 0,IYUPER = 0,IDELS = 5,IRU = 1,
IDAYS = 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,

0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,

```
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
$END                            0,LMETIN = T,LMETOT = F
 $CALC
CRIT = .20000000-001,
TERAN = .50000000+000, .50000000+000, .50000000+000, .50000000+000, .30000000+000, .30000000+000,DECFAC = .41670000-004,
XBACKG = .15000000+002,CONST2 = .26000000+001,CONST3 = .34490000+002,MAXIT =          14
$END
 $OUTPUT
IPCL =      1,      1,      1,      1,      0,      0,      0,      0,      0,      0,
      1,
IPCP =      1,      1,      1,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
$END                                                    1
```

BLP -- MULTIPLE BUOYANT LINE AND POINT SOURCE DISPERSION MODEL VERSION 2.0 LEVEL 800909

BLP VERSION 2.0 TEST CASE

TOTAL NUMBER OF DAYS INCLUDED IN THIS RUN: 1

(0=NOT INCLUDED,1=INCLUDED)

1000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000

0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000

0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000

0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000

0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 000000

TOTAL NUMBER OF SOURCES: 7

LINE SOURCES: 4
POINT SOURCES: 3

PARTIAL CONCENTRATIONS REQUESTED FOR ANY LINE OR POINT SOURCES ? YES

POINT SOURCE BUILDING DOWNWASH OPTION REQUESTED ? YES

VERTICAL WIND SHEAR (IN PLUME RISE) REQUESTED ? YES

TRANSITIONAL POINT SOURCE PLUME RISE REQUESTED ? YES

OUTPUT OF METEOROLOGICAL DATA REQUESTED ? NO

PARAMETERS USED IN THE LINE SOURCE PLUME RISE CALCULATIONS

BUILDING DIMENSIONS: HEIGHT = 15.00 (M)
WIDTH = 20.00 (M)
LENGTH = 447.20 (M)

BUILDING SEPARATION = 50.70 (M)

LINE SOURCE SEPARATION = 70.70 (M)

LINE SOURCE WIDTH = 2.50 (M)

BUOYANCY FLUX PER LINE (FPRIME) = 300.0 (M**4/S**3)

BLP -- MULTIPLE BUOYANT LINE AND POINT SOURCE DISPERSION MODEL VERSION 2.0 LEVEL 800909

****

METEOROLOGICAL PARAMETERS

MEAN WIND SPEED MEASUREMENT HEIGHT = 10.0 (M)

WIND SPEED POWER LAW EXPONENTS (STABILITIES 1-6) = .10 .15 .20 .25 .30 .30

VERTICAL POTENTIAL TEMPERATURE GRADIENT = .020 DEG K/M (STABILITY 5) .035 DEG K/M (STABILITY 6)

METEOROLOGICAL DATA -- FORMATTED USER INPUT

COMPUTATIONAL PARAMETERS

CONVERGENCE THRESHOLD FOR LINE SOURCE CALCULATIONS = .020

MAXIMUM NUMBER OF ITERATIONS IN LINE SOURCE CALCULATIONS = 14

FINAL NEUTRAL PLUME RISE CONSTANT (CONST3) = 34.49

BACKGROUND CONCENTRATION = 15.00 (MICROGRAMS/M**3)

POLLUTANT DECAY FACTOR = .41670-004 (1/SEC)

TERRAIN ADJUSTMENT FACTORS (STABILITIES 1-6) = .50 .50 .50 .50 .30 .30

BLP -- MULTIPLE BUOYANT LINE AND POINT SOURCE DISPERSION MODEL VERSION 2.0 LEVEL 800909

****

RECEPTOR LOCATIONS GENERATED FROM USER DEFINED RECEPTOR RECTANGLE

RECEPTOR NETWORK DEFINED BY THE FOLLOWING RECTANGLE

(455000.0, 4177000.0) (465000.0, 4177000.0)

(455000.0, 4172000.0) (465000.0, 4172000.0)

X GRID SPACING = 1000.00

Y GRID SPACING = 1000.00

SOURCE AND RECEPTOR LOCATIONS SPECIFIED IN UTM COORDINATES

BLP -- MULTIPLE BUOYANT LINE AND POINT SOURCE DISPERSION MODEL VERSION 2.0 LEVEL 800909

****

LINE SOURCE PARAMETERS

NUMBER OF LINES: 4

LINE NUMBER	X START (M)	Y START (M)	X END (M)	Y END (M)	Q (GM/SEC)	HEIGHT (M)	PARTIAL CHI OUTPUT (0=NO,1=YES)	ELEVATION (M)
1	460800.0	4176000.0	461000.0	4175600.0	8.50	15.00	1	.0
2	460850.0	4176050.0	461050.0	4175650.0	8.50	15.00	1	.0
3	460900.0	4176100.0	461100.0	4175700.0	8.50	15.00	1	.0
4	460950.0	4176150.0	461150.0	4175750.0	8.50	15.00	1	.0

SOURCE CONTRIBUTIONS FROM THE FOLLOWING LINE SOURCES ARE AVAILABLE:

(0=NOT AVAILABLE; 1=AVAILABLE)

LINE SOURCE NUMBER	AVAILABILITY
1	1
2	1
3	1
4	1
1 - 4	1

BLP -- MULTIPLE BUOYANT LINE AND POINT SOURCE DISPERSION MODEL VERSION 2.0 LEVEL 800909

****

POINT SOURCE PARAMETERS

NUMBER OF POINTS: 3

POINT NUMBER	X (M)	Y (M)	Q (GM/SEC)	HEIGHT (M)	VOL. FLUX (M**3/SEC)	STACK TEMP. (DEG K)	PARTIAL CHI OUTPUT (0=NO, 1=YES)	ELEVATION (M)
1	461050.0	4175740.0	25.50	18.00	38.	340.0	1	.0
2	460920.0	4175990.0	32.00	22.00	74.	350.0	1	.0
3	461300.0	4176000.0	150.00	850.00	314.	450.0	1	.0

SOURCE CONTRIBUTIONS FROM THE FOLLOWING POINT SOURCES ARE AVAILABLE:

(0=NOT AVAILABLE; 1=AVAILABLE)

POINT SOURCE NUMBER	AVAILABILITY
1	1
2	1
3	1
1 - 3	1

THE SOURCE RECTANGLE IS DEFINED BY THE FOLLOWING POINTS (IN SCS COORDINATES):

(-67.08, 201.25)	(447.21, 201.25)
(-67.08, .00)	(447.21, .00)

RECEPTOR NO.	LOCATION X	LOCATION Y
1	984.	-6977.
2	89.	-6529.
3	-805.	-6082.
4	-1699.	-5635.
5	-2594.	-5188.
6	-3488.	-4740.
7	1431.	-6082.
8	537.	-5635.
9	-358.	-5188.
10	-1252.	-4740.
11	-2147.	-4293.
12	-3041.	-3846.
13	1878.	-5188.
14	984.	-4740.
15	89.	-4293.
16	-805.	-3846.
17	-1699.	-3399.
18	-2594.	-2952.
19	2326.	-4293.
20	1431.	-3846.
21	537.	-3399.
22	-358.	-2952.
23	-1252.	-2504.
24	-2147.	-2057.
25	2773.	-3399.
26	1878.	-2952.
27	984.	-2504.
28	89.	-2057.
29	-805.	-1610.
30	-1699.	-1163.
31	3220.	-2504.
32	2326.	-2057.
33	1431.	-1610.
34	537.	-1163.
35	-358.	-716.
36	-1252.	-268.
37	3667.	-1610.
38	2773.	-1163.
39	1878.	-716.
40	984.	-268.
41	-805.	626.
42	4114.	-716.
43	3220.	-268.
44	2326.	179.
45	1431.	626.
46	537.	1073.
47	-358.	1521.
48	4562.	179.
49	3667.	626.
50	2773.	1073.
51	1878.	1521.
52	984.	1968.
53	89.	2415.
54	5009.	1073.
55	4114.	1521.
56	3220.	1968.
57	2326.	2415.
58	1431.	2862.
59	537.	3309.
60	5456.	1968.
61	4562.	2415.
62	3667.	2862.
63	2773.	3309.
64	1878.	3757.
65	984.	4204.

NUMBER OF POSSIBLE RECEPTOR LOCATIONS = 66

NUMBER OF ACTUAL RECEPTOR LOCATIONS = 65

GENERATED RECEPTOR LOCATIONS IN SCS COORDINATES

BLP -- MULTIPLE BUOYANT LINE AND POINT SOURCE DISPERSION MODEL VERSION 2.0 LEVEL 800909

****

USER INPUT FORMATTED METEOROLOGICAL DATA

HOUR	STABILITY CLASS	WIND SPEED (M/S)	WIND DIRECTION (DEGREES)	TEMPERATURE (DEG. K)	MIXING HEIGHT (M)
1	6	1.50	335.0	263.0	251.
2	6	2.10	326.0	261.0	251.
3	6	2.10	300.0	262.0	251.
4	6	2.10	237.0	262.0	251.
5	6	3.10	262.0	261.0	251.
6	6	2.60	189.0	261.0	251.
7	5	3.10	133.0	261.0	251.
8	4	3.60	104.0	261.0	267.
9	4	4.10	68.0	263.0	371.
10	4	5.80	43.0	265.0	475.
11	4	8.50	3.0	265.0	579.
12	4	10.20	351.0	266.0	683.
13	3	2.10	5.0	267.0	787.
14	2	2.10	349.0	268.0	891.
15	1	1.00	312.0	269.0	891.
16	2	3.10	224.0	270.0	891.
17	3	1.50	211.0	270.0	891.
18	6	1.50	194.0	269.0	825.
19	6	2.10	227.0	267.0	703.
20	6	1.50	201.0	267.0	582.
21	6	2.10	141.0	265.0	460.
22	6	1.50	262.0	265.0	338.
23	6	3.10	230.0	264.0	216.

24	5	4.10	226.0	265.0	94.

LAST DAY PROCESSED = 1

$XQT U.ABS19B

```
POSTBLP (VERSION 80201)
A POSTPROCESSOR FOR BLP IN
SECTION 1. MODELS FOR EVALUATION.
IN UNAMAP (VERSION 4) DEC 80
SOURCE: FILE 19 ON UNAMAP MAGNETIC TAPE FROM NTIS.

                    BLP POSTPROCESSOR   VERSION  1.1   LEVEL 800702

**************************************************************************************************

 $OPTS
XINT = .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    ,
 .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    ,
 .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    ,
 .00000000    ,
XINT3 = .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    ,
 .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    ,
 .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    ,
 .00000000    ,
XINT24 = .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    ,
 .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    ,
 .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    , .00000000    ,
 .00000000    ,NINT =          0,NINT3 =          0,NINT24 =          0,LFRQ1 = F,LFRQ3 = F,LFRQ24 = F,IRECEP =          1,
IECHO =         0,         0,         0,         0,         0,         0,         0,         0,         0,         0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
        0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
```

```
      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
ISCODE =      0,      0,      0,      0,      0,      0,      0,      0,      0,
      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
      0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
$END
```

0,LECH1 = F,LECH3 = F,LECH24 = F,MSUM = 0,LSUM = F,IJCODE = 999

BLP POSTPROCESSOR VERSION 1.1 LEVEL 800702

****

BLP VERSION 2.0 TEST CASE YEAR: 0

TOTAL NUMBER OF DAYS INCLUDED IN THIS RUN: 1

(0=NOT INCLUDED; 1=INCLUDED)

1000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000

0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000

0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000

0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 000000

TOTAL NUMBER OF SOURCES: 7

LINE SOURCES: 4
POINT SOURCES: 3

TOTAL NUMBER OF RECEPTORS: 65

SOURCE CONTRIBUTIONS FROM THE FOLLOWING LINE SOURCES ARE AVAILABLE:

(0=NOT AVAILABLE; 1=AVAILABLE)

LINE SOURCE NUMBER	AVAILABILITY
1	1
2	1
3	1

4	1
1 - 4	1

BLP POSTPROCESSOR VERSION 1.1 LEVEL 800702

****

SOURCE CONTRIBUTIONS FROM THE FOLLOWING POINT SOURCES ARE AVAILABLE:

(0=NOT AVAILABLE; 1=AVAILABLE)

POINT SOURCE NUMBER	AVAILABILITY
1	1
2	1
3	1
1 - 3	1

BLP POSTPROCESSOR VERSION 1.1 LEVEL 800702

****

IJCODE = 999

(IJCODE SPECIFIES THE BLP CONCENTRATION OUTPUT DATA USED IN THIS RUN OF POSTBLP.
THE CONCENTRATION DATA ASSOCIATED WITH IJCODE IS AS FOLLOWS:

IJCODE	CONCENTRATION DATA
1-10	SOURCE CONTRIBUTION - LINE SOURCE NUMBER "IJCODE"
11	SOURCE CONTRIBUTION - ALL LINE SOURCES
101-150	SOURCE CONTRIBUTION - POINT SOURCE NUMBER "IJCODE - 100"
151	SOURCE CONTRIBUTION - ALL POINT SOURCES
999	TOTAL CONCENTRATION)

FREQUENCY DISTRIBUTIONS REQUESTED IN THIS POSTBLP RUN:

1-HOUR AVERAGES ? NO
3-HOUR AVERAGES ? NO
24-HOUR AVERAGES ? NO

BLP POSTPROCESSOR VERSION 1.1 LEVEL 800702

****

CONCENTRATIONS AT EACH RECEPTOR ARE PRINTED FOR THE FOLLOWING DAYS:

(0=NOT PRINTED; 1=PRINTED)

0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000

0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000

0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000

0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 000000

AND FOR THE FOLLOWING AVERAGING TIMES:

1-HOUR AVERAGES ? NO
3-HOUR AVERAGES ? NO
24-HOUR AVERAGES ? NO

1.0 DAY (24 HR) AVERAGE CONCENTRATIONS AT EACH RECEPTOR

RECEPTOR	1.0 DAY AVERAGE CONCENTRATION (UG/M**3)	RECEPTOR	1.0 DAY AVERAGE CONCENTRATION (UG/M**3)
1	31.6	33	25.9
2	15.0	34	68.6
3	15.0	35	20.3
4	50.4	36	21.7
5	15.0	37	15.0
6	15.0	38	15.0
7	26.1	39	15.2
8	21.6	40	23.0
9	15.0	41	41.4
10	45.0	42	15.0
11	15.0	43	15.0
12	15.0	44	15.0
13	46.3	45	29.3
14	30.1	46	18.1
15	15.1	47	22.2
16	26.6	48	15.0
17	15.0	49	20.8
18	15.0	50	33.9
19	17.3	51	16.0
20	55.5	52	15.0
21	32.3	53	16.7
22	15.5	54	35.1
23	15.0	55	30.1
24	15.3	56	15.0
25	18.7	57	20.9
26	19.6	58	15.0
27	66.3	59	20.8
28	15.9	60	26.4
29	15.3	61	15.3
30	39.6	62	15.1
31	43.4	63	19.8
32	43.8	64	15.0
		65	16.7

5 HIGHEST 1-HOUR AVERAGE CONCENTRATIONS AT EACH RECEPTOR

RECEPTOR	HIGHEST (UG/M**3)	2ND HIGHEST (UG/M**3)	3RD HIGHEST (UG/M**3)	4TH HIGHEST (UG/M**3)	5TH HIGHEST (UG/M**3)
1	411.8 (1, 4)	17.3 (1,16)	15.3 (1,23)	15.0 (1,24)	15.0 (1, 5)
2	15.3 (1, 4)	15.2 (1,16)	15.0 (1, 5)	15.0 (1, 3)	15.0 (1, 2)
3	15.0 (1,16)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
4	488.9 (1,22)	390.5 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
5	15.0 (1,22)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
6	15.1 (1,15)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
7	216.1 (1,23)	42.3 (1, 4)	30.6 (1,24)	30.1 (1,19)	22.7 (1,16)
8	172.4 (1, 4)	16.5 (1,16)	15.0 (1, 5)	15.0 (1, 3)	15.0 (1, 2)
9	15.0 (1,16)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
10	401.8 (1,22)	349.3 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
11	15.0 (1,22)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
12	15.2 (1,15)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
13	448.4 (1,19)	242.0 (1,24)	87.3 (1,23)	31.3 (1,16)	16.1 (1,17)
14	290.7 (1, 4)	86.4 (1,23)	23.2 (1,16)	19.6 (1,24)	16.8 (1,19)
15	16.2 (1, 4)	15.6 (1,16)	15.0 (1, 5)	15.0 (1, 3)	15.0 (1, 2)
16	158.7 (1,22)	149.8 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
17	15.1 (1,22)	15.1 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
18	16.1 (1,15)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
19	52.5 (1,17)	29.2 (1,16)	19.0 (1,24)	15.0 (1, 5)	15.0 (1, 4)
20	503.5 (1,19)	292.8 (1,24)	193.0 (1,23)	40.9 (1,16)	16.9 (1,17)
21	418.9 (1, 4)	23.1 (1,16)	18.4 (1,23)	15.3 (1,24)	15.0 (1, 5)
22	21.9 (1,22)	20.6 (1, 5)	15.0 (1,16)	15.0 (1, 4)	15.0 (1, 3)
23	15.4 (1,22)	15.3 (1, 5)	15.0 (1,15)	15.0 (1, 4)	15.0 (1, 3)
24	21.7 (1,15)	15.4 (1, 3)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 2)
25	89.9 (1,17)	26.6 (1,20)	17.1 (1,16)	15.0 (1, 5)	15.0 (1, 4)
26	107.5 (1,17)	33.5 (1,16)	15.5 (1,24)	15.0 (1, 5)	15.0 (1, 4)
27	470.8 (1,19)	426.7 (1,23)	322.5 (1,24)	68.3 (1,16)	18.4 (1,17)
28	33.1 (1, 4)	18.3 (1,16)	15.0 (1, 5)	15.0 (1, 3)	15.0 (1, 2)
29	19.1 (1,22)	18.4 (1, 5)	15.1 (1,15)	15.0 (1, 4)	15.0 (1, 3)
30	562.0 (1, 3)	57.3 (1,15)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 2)
31	662.3 (1,18)	43.1 (1, 6)	20.2 (1,20)	15.7 (1,17)	15.0 (1,16)
32	578.5 (1,20)	127.4 (1,18)	30.4 (1,17)	15.3 (1,16)	15.1 (1, 6)
33	161.4 (1,17)	114.5 (1,20)	30.8 (1,16)	15.0 (1, 5)	15.0 (1, 4)
34	359.2 (1,19)	329.9 (1,23)	270.2 (1,24)	231.6 (1, 4)	167.8 (1,16)
35	79.6 (1, 5)	72.1 (1,22)	20.2 (1,15)	15.0 (1, 4)	15.0 (1, 3)
36	117.7 (1,15)	72.4 (1, 2)	15.2 (1,14)	15.0 (1, 5)	15.0 (1, 4)
37	15.0 (1, 6)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
38	15.2 (1, 6)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
39	19.4 (1, 6)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
40	188.5 (1, 6)	32.6 (1,18)	15.0 (1,17)	15.0 (1,16)	15.0 (1, 5)
41	364.1 (1,11)	141.6 (1,13)	111.8 (1,14)	76.0 (1,12)	15.0 (1, 5)
42	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)	15.0 (1, 1)
43	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)	15.0 (1, 1)
44	15.2 (1,21)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
45	353.4 (1, 7)	19.5 (1,21)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)
46	87.6 (1, 9)	17.6 (1, 8)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)
47	188.9 (1,10)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
48	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)	15.0 (1, 1)
49	153.0 (1,21)	15.1 (1, 7)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)
50	467.6 (1, 7)	16.1 (1,21)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)

5 HIGHEST 1-HOUR AVERAGE CONCENTRATIONS AT EACH RECEPTOR

RECEPTOR	HIGHEST (UG/M**3)	2ND HIGHEST (UG/M**3)	3RD HIGHEST (UG/M**3)	4TH HIGHEST (UG/M**3)	5TH HIGHEST (UG/M**3)
51	39.5 (1, 8)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
52	15.1 (1, 9)	15.0 (1, 8)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)
53	55.9 (1, 9)	15.1 (1,10)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)
54	496.9 (1,21)	16.0 (1, 7)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)
55	377.9 (1, 7)	15.4 (1,21)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)
56	15.2 (1, 7)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
57	156.8 (1, 8)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
58	15.0 (1, 8)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
59	154.4 (1, 9)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
60	289.0 (1, 7)	15.2 (1,21)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)
61	21.2 (1, 7)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
62	16.4 (1, 8)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
63	129.1 (1, 8)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
64	15.0 (1, 8)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)
65	55.0 (1, 9)	15.0 (1, 5)	15.0 (1, 4)	15.0 (1, 3)	15.0 (1, 2)

5 HIGHEST 3-HOUR AVERAGE CONCENTRATIONS AT EACH RECEPTOR

RECEPTOR	HIGHEST (UG/M**3)	2ND HIGHEST (UG/M**3)	3RD HIGHEST (UG/M**3)	4TH HIGHEST (UG/M**3)	5TH HIGHEST (UG/M**3)
1	147.3 (1,2)	15.8 (1,6)	15.1 (1,8)	15.0 (1,5)	15.0 (1,4)
2	15.1 (1,2)	15.1 (1,6)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)
3	15.0 (1,6)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)	15.0 (1,2)
4	173.0 (1,8)	140.2 (1,2)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)
5	15.0 (1,8)	15.0 (1,2)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)
6	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)	15.0 (1,2)	15.0 (1,1)
7	87.3 (1,8)	24.1 (1,2)	20.0 (1,7)	17.6 (1,6)	15.0 (1,5)
8	67.5 (1,2)	15.5 (1,6)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)
9	15.0 (1,6)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)	15.0 (1,2)
10	143.9 (1,8)	126.4 (1,2)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)
11	15.0 (1,8)	15.0 (1,2)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)
12	15.1 (1,5)	15.0 (1,4)	15.0 (1,3)	15.0 (1,2)	15.0 (1,1)
13	159.5 (1,7)	114.8 (1,8)	20.8 (1,6)	15.0 (1,5)	15.0 (1,4)
14	106.9 (1,2)	40.3 (1,8)	17.7 (1,6)	15.6 (1,7)	15.0 (1,5)
15	15.4 (1,2)	15.2 (1,6)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)
16	62.9 (1,8)	59.9 (1,2)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)
17	15.0 (1,8)	15.0 (1,2)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)
18	15.4 (1,5)	15.0 (1,4)	15.0 (1,3)	15.0 (1,2)	15.0 (1,1)
19	32.2 (1,6)	16.3 (1,8)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)
20	177.8 (1,7)	166.9 (1,8)	24.3 (1,6)	15.0 (1,5)	15.0 (1,4)
21	149.6 (1,2)	17.7 (1,6)	16.3 (1,8)	15.0 (1,5)	15.0 (1,4)
22	17.3 (1,8)	16.9 (1,2)	15.0 (1,6)	15.0 (1,5)	15.0 (1,4)
23	15.1 (1,8)	15.1 (1,2)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)
24	17.2 (1,5)	15.1 (1,1)	15.0 (1,4)	15.0 (1,3)	15.0 (1,2)
25	40.7 (1,6)	18.9 (1,7)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)
26	52.0 (1,6)	15.2 (1,8)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)
27	254.7 (1,8)	166.9 (1,7)	33.9 (1,6)	15.1 (1,2)	15.0 (1,5)
28	21.0 (1,2)	16.1 (1,6)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)
29	16.4 (1,8)	16.1 (1,2)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)
30	197.3 (1,1)	29.1 (1,5)	15.0 (1,4)	15.0 (1,3)	15.0 (1,2)
31	231.0 (1,6)	24.4 (1,2)	16.7 (1,7)	15.0 (1,5)	15.0 (1,4)
32	202.8 (1,7)	57.7 (1,6)	15.0 (1,2)	15.0 (1,5)	15.0 (1,4)
33	69.1 (1,6)	48.2 (1,7)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)
34	205.0 (1,8)	129.7 (1,7)	87.2 (1,2)	67.0 (1,6)	15.0 (1,5)
35	36.5 (1,2)	34.0 (1,8)	16.7 (1,5)	15.0 (1,4)	15.0 (1,3)
36	49.3 (1,5)	34.1 (1,1)	15.0 (1,4)	15.0 (1,3)	15.0 (1,2)
37	15.0 (1,2)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)	15.0 (1,1)
38	15.1 (1,2)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)	15.0 (1,1)
39	16.5 (1,2)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)	15.0 (1,1)
40	72.8 (1,2)	20.9 (1,6)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)
41	151.7 (1,4)	89.5 (1,5)	15.0 (1,3)	15.0 (1,2)	15.0 (1,1)
42	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)	15.0 (1,2)	15.0 (1,1)
43	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)	15.0 (1,2)	15.0 (1,1)
44	15.1 (1,7)	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)	15.0 (1,2)
45	127.8 (1,3)	16.5 (1,7)	15.0 (1,5)	15.0 (1,4)	15.0 (1,2)
46	40.1 (1,3)	15.0 (1,5)	15.0 (1,4)	15.0 (1,2)	15.0 (1,1)
47	73.0 (1,4)	15.0 (1,5)	15.0 (1,3)	15.0 (1,2)	15.0 (1,1)
48	15.0 (1,5)	15.0 (1,4)	15.0 (1,3)	15.0 (1,2)	15.0 (1,1)
49	61.0 (1,7)	15.0 (1,3)	15.0 (1,5)	15.0 (1,4)	15.0 (1,2)
50	165.9 (1,3)	15.4 (1,7)	15.0 (1,5)	15.0 (1,4)	15.0 (1,2)

5 HIGHEST 3-HOUR AVERAGE CONCENTRATIONS AT EACH RECEPTOR

RECEPTOR	HIGHEST (UG/M**3)	2ND HIGHEST (UG/M**3)	3RD HIGHEST (UG/M**3)	4TH HIGHEST (UG/M**3)	5TH HIGHEST (UG/M**3)
51	23.2 (1,3)	15.0 (1,5)	15.0 (1,4)	15.0 (1,2)	15.0 (1,1)
52	15.0 (1,3)	15.0 (1,5)	15.0 (1,4)	15.0 (1,2)	15.0 (1,1)
53	28.6 (1,3)	15.0 (1,4)	15.0 (1,5)	15.0 (1,2)	15.0 (1,1)
54	175.6 (1,7)	15.3 (1,3)	15.0 (1,5)	15.0 (1,4)	15.0 (1,2)
55	136.0 (1,3)	15.1 (1,7)	15.0 (1,5)	15.0 (1,4)	15.0 (1,2)
56	15.1 (1,3)	15.0 (1,5)	15.0 (1,4)	15.0 (1,2)	15.0 (1,1)
57	62.3 (1,3)	15.0 (1,5)	15.0 (1,4)	15.0 (1,2)	15.0 (1,1)
58	15.0 (1,3)	15.0 (1,5)	15.0 (1,4)	15.0 (1,2)	15.0 (1,1)
59	61.5 (1,3)	15.0 (1,5)	15.0 (1,4)	15.0 (1,2)	15.0 (1,1)
60	106.3 (1,3)	15.1 (1,7)	15.0 (1,5)	15.0 (1,4)	15.0 (1,2)
61	17.1 (1,3)	15.0 (1,5)	15.0 (1,4)	15.0 (1,2)	15.0 (1,1)
62	15.5 (1,3)	15.0 (1,5)	15.0 (1,4)	15.0 (1,2)	15.0 (1,1)
63	53.0 (1,3)	15.0 (1,5)	15.0 (1,4)	15.0 (1,2)	15.0 (1,1)
64	15.0 (1,3)	15.0 (1,5)	15.0 (1,4)	15.0 (1,2)	15.0 (1,1)
65	28.3 (1,3)	15.0 (1,5)	15.0 (1,4)	15.0 (1,2)	15.0 (1,1)

5 HIGHEST 24-HOUR AVERAGE CONCENTRATIONS AT EACH RECEPTOR

RECEPTOR	HIGHEST (UG/M**3)	2ND HIGHEST (UG/M**3)	3RD HIGHEST (UG/M**3)	4TH HIGHEST (UG/M**3)	5TH HIGHEST (UG/M**3)
1	31.6 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
2	15.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
3	15.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
4	50.4 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
5	15.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
6	15.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
7	26.1 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
8	21.6 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
9	15.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
10	45.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
11	15.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
12	15.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
13	46.3 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
14	30.1 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
15	15.1 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
16	26.6 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
17	15.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
18	15.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
19	17.3 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
20	55.5 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
21	32.3 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
22	15.5 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
23	15.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
24	15.3 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
25	18.7 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
26	19.6 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
27	66.3 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
28	15.9 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
29	15.3 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
30	39.6 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
31	43.4 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
32	43.8 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
33	25.9 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
34	68.6 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
35	20.3 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
36	21.7 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
37	15.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
38	15.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
39	15.2 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
40	23.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
41	41.4 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
42	15.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
43	15.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
44	15.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
45	29.3 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
46	18.1 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
47	22.2 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
48	15.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
49	20.8 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
50	33.9 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)

5 HIGHEST 24-HOUR AVERAGE CONCENTRATIONS AT EACH RECEPTOR

RECEPTOR	HIGHEST (UG/M**3)	2ND HIGHEST (UG/M**3)	3RD HIGHEST (UG/M**3)	4TH HIGHEST (UG/M**3)	5TH HIGHEST (UG/M**3)
51	16.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
52	15.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
53	16.7 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
54	35.1 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
55	30.1 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
56	15.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
57	20.9 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
58	15.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
59	20.8 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
60	26.4 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
61	15.3 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
62	15.1 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
63	19.8 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
64	15.0 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)
65	16.7 (1)	.0 (0)	.0 (0)	.0 (0)	.0 (0)

TOP 50 1-HOUR AVERAGE CONCENTRATIONS

DAY	HOUR	WIND SPEED (M/S)	WIND DIRECTION (DEGREES)	STABILITY	MIXING HEIGHT (METERS)	RECEPTOR	1-HOUR CONCENTRATION (UG/M**3)
1	18	1.5	194	6	825	31	662.3
1	20	1.5	201	6	582	32	578.5
1	3	2.1	300	6	251	30	562.0
1	19	2.1	227	6	703	20	503.5
1	21	2.1	141	6	460	54	496.9
1	22	1.5	262	6	338	4	488.9
1	19	2.1	227	6	703	27	470.8
1	7	3.1	133	5	251	50	467.6
1	19	2.1	227	6	703	13	448.4
1	23	3.1	230	6	216	27	426.7
1	4	2.1	237	6	251	21	418.9
1	4	2.1	237	6	251	1	411.8
1	22	1.5	262	6	338	10	401.8
1	5	3.1	262	6	251	4	390.5
1	7	3.1	133	5	251	55	377.9
1	11	8.5	3	4	579	41	364.1
1	19	2.1	227	6	703	34	359.2
1	7	3.1	133	5	251	45	353.4
1	5	3.1	262	6	251	10	349.3
1	23	3.1	230	6	216	34	329.9
1	24	4.1	226	5	94	27	322.5
1	24	4.1	226	5	94	20	292.8
1	4	2.1	237	6	251	14	290.7
1	7	3.1	133	5	251	60	289.0
1	24	4.1	226	5	94	34	270.2
1	24	4.1	226	5	94	13	242.0
1	4	2.1	237	6	251	34	231.6
1	23	3.1	230	6	216	7	216.1
1	23	3.1	230	6	216	20	193.0
1	10	5.8	43	4	475	47	188.9
1	6	2.6	189	6	251	40	188.5
1	4	2.1	237	6	251	8	172.4
1	16	3.1	224	2	891	34	167.8
1	17	1.5	211	3	891	33	161.4
1	22	1.5	262	6	338	16	158.7
1	8	3.6	104	4	267	57	156.8
1	9	4.1	68	4	371	59	154.4
1	21	2.1	141	6	460	49	153.0
1	5	3.1	262	6	251	16	149.8
1	13	2.1	5	3	787	41	141.6
1	8	3.6	104	4	267	63	129.1
1	18	1.5	194	6	825	32	127.4
1	15	1.0	312	1	891	36	117.7
1	20	1.5	201	6	582	33	114.5
1	14	2.1	349	2	891	41	111.8
1	17	1.5	211	3	891	26	107.5
1	17	1.5	211	3	891	25	89.9
1	9	4.1	68	4	371	46	87.6
1	23	3.1	230	6	216	13	87.3
1	23	3.1	230	6	216	14	86.4

TOP 50 3-HOUR AVERAGE CONCENTRATIONS

DAY	TIME PERIOD	RECEPTOR	3-HOUR CONCENTRATION (UG/M**3)
1	8	27	254.7
1	6	31	231.0
1	8	34	205.0
1	7	32	202.8
1	1	30	197.3
1	7	20	177.8
1	7	54	175.6
1	8	4	173.0
1	8	20	166.9
1	7	27	166.9
1	3	50	165.9
1	7	13	159.5
1	4	41	151.7
1	2	21	149.6
1	2	1	147.3
1	8	10	143.9
1	2	4	140.2
1	3	55	136.0
1	7	34	129.7
1	3	45	127.8
1	2	10	126.4
1	8	13	114.8
1	2	14	106.9
1	3	60	106.3
1	5	41	89.5
1	8	7	87.3
1	2	34	87.2
1	4	47	73.0
1	2	40	72.8
1	6	33	69.1
1	2	8	67.5
1	6	34	67.0
1	8	16	62.9
1	3	57	62.3
1	3	59	61.5
1	7	49	61.0
1	2	16	59.9
1	6	32	57.7
1	3	63	53.0
1	5	26	52.0
1	5	36	49.3
1	7	33	48.2
1	6	25	40.7
1	8	14	40.3
1	3	46	40.1
1	2	35	36.5
1	1	36	34.1
1	8	35	34.0
1	6	27	33.9
1	6	19	32.2

TOP 50 24-HOUR AVERAGE CONCENTRATIONS

DAY	RECEPTOR	24-HOUR CONCENTRATION (UG/M**3)
1	34	68.6
1	27	66.3
1	20	55.5
1	4	50.4
1	13	46.3
1	10	45.0
1	32	43.8
1	31	43.4
1	41	41.4
1	30	39.6
1	54	35.1
1	50	33.9
1	21	32.3
1	1	31.6
1	55	30.1
1	14	30.1
1	45	29.3
1	16	26.6
1	60	26.4
1	7	26.1
1	33	25.9
1	40	23.0
1	47	22.2
1	36	21.7
1	8	21.6
1	57	20.9
1	59	20.8
1	49	20.6
1	35	20.3
1	63	19.8
1	26	19.6
1	25	18.7
1	46	18.1
1	19	17.3
1	53	16.7
1	65	16.7
1	51	15.0
1	28	15.9
1	22	15.5
1	29	15.3
1	24	15.3
1	61	15.3
1	39	15.2
1	15	15.1
1	62	15.1
1	18	15.0
1	23	15.0
1	2	15.0
1	12	15.0

JXQT U.ABS23

TCM2 (VERSION 80153)
AN AIR QUALITY DISPERSION MODEL IM
SECTION 2. GUIDELINE MODELS (1978)
IN UNAMAP (VERSION 4) DEC 80
SOURCE: FILE 23 ON UNAMAP MAGNETIC TAPE FROM NTIS.

T E X A S C L I M A T O L O G I C A L M O D E L - V E R S I O N - 2

EXAMPLE OF POINT SOURCES RUN ON TCM2 00020090

RECEPTOR GRID CONSISTS OF 25 COLUMNS AND 25 ROWS, SPACED 1.000KM. APART. SOUTHWEST CORNER OF GRID = 300.00KM., 3250.00KM.

1 RUN(S) WITH BOTH THE FIRST AND SECOND POLLUTANTS AND INTPUN = 1
RISING STAGE OF PLUME RISE WILL BE USED
RURAL DISPERSION WILL BE USED FOR POINT SOURCES

TYPES OF OUTPUT TO BE PRODUCED BY THIS RUN:
ARRAY MAP
LIST OF MAXIMUM CONCENTRATIONS

DECAY HALF-LIFE OF POLLUTANT 1 = 999.900 HOURS.

DECAY HALF-LIFE OF POLLUTANT 2 = 999.900 HOURS.

RUN NO.	MEAN TEMPERATURE	AREA SOURCE EMISSION SCALING FACTORS P 1	P 2	CONCENTRATION CALIBRATION FACTORS A 1	B 1	A 2	B 2
1	293.65 K	1.0000	1.0000	.0000	1.2500	.0000	1.3333

CALIBRATED CONC = A(I) + B(I)*CALCULATED CONC

METEOROLOGICAL JOINT FREQUENCY FUNCTION FOR RUN 1

HOUSTON HOBBY AIRPORT,1961-1969 00020180

WIND SECTOR	STABILITY CLASS: A	B	C	DD	DN	E+F
1	.000940	.005070	.011270	.037240	.023660	.045410
2	.000570	.002950	.006560	.012070	.005610	.017770
3	.000680	.003260	.005020	.007190	.003120	.010930
4	.000640	.002480	.003770	.004000	.001970	.011720
5	.000280	.002710	.003910	.005650	.002160	.014100
6	.000260	.002140	.003330	.006570	.004520	.010360
7	.000280	.001800	.003040	.010690	.009630	.012150
8	.000260	.002190	.004020	.018610	.020330	.018260
9	.000150	.002710	.005410	.017360	.026060	.026490
10	.000280	.001950	.003790	.009620	.012140	.011150
11	.000330	.003100	.006340	.010680	.013400	.019070
12	.000350	.003100	.006490	.012910	.013490	.017930
13	.000390	.002760	.007740	.017230	.014300	.018270
14	.000170	.003160	.008060	.023940	.018370	.026660
15	.000390	.003900	.008340	.025150	.023780	.040050
16	.000430	.004130	.012020	.048640	.037630	.048910

MEAN WIND SPEEDS, METERS/SECOND 2.0164 2.4773 3.7335 5.4779 4.4290 2.2380 OVERALL MEAN = 3.2706

T E X A S C L I M A T O L O G I C A L M O D E L - V E R S I O N - 2

POINT SOURCE LIST: EXAMPLE OF POINT SOURCES RUN ON TCM2 00020090 RUN 1

SOURCE NO.	X (KM)	Y (KM)	HT.(M)	DIAM.(M)	VEL.(M/S)	TEMP.(K)	E1(G/S)	E2(G/S)	IDENTIFICATION
1	314.55	3250.20	14.00	1.500	20.00	573.15	170.000	111.000	1 0002
2	311.49	3248.95	75.00	2.500	6.00	318.15	300.000	.000	2 0002
3	312.75	3250.44	45.00	3.000	9.00	1296.15	200.000	.000	3 0002
4	303.03	3286.91	90.00	1.250	22.00	333.15	1500.000	550.000	4 0002

THE SUM OF THE POINT SOURCE EMISSION RATES FOR THIS RUN IS 2170.00G/S FOR POLLUTANT 1, 661.00G/S FOR POLLUTANT 2

THE SUM OF THE AREA SOURCE EMISSION RATES FOR THIS RUN IS .00G/S FOR POLLUTANT 1, .00G/S FOR POLLUTANT 2

SECTION 1 OF 1 RUN NUMBER 1, POLLUTANT 1 (SO2) ,UNCALIBRATED CONCENTRATIONS IN UG/M3 TCM-2 RURAL
EXAMPLE OF POINT SOURCES RUN ON TCM2 00020090
METEOROLOGY: HOUSTON HOBBY AIRPORT,1961-1969 00020180

	300.00	302.00	304.00	306.00	308.00	310.00	312.00	314.00	316.00	318.00	320.00	322.00	324.00	
3274.00	9 14 14 14 14 14 13 12 12 12 11 11 8 6 8 8 8 6 6 6 4 4 4 3 3													3274.00
3273.00	9 14 14 14 14 14 13 12 12 12 11 11 11 8 6 6 8 6 6 6 4 4 4 4 3													3273.00
3272.00	9 13 13 14 14 14 12 12 12 11 11 11 11 8 6 6 8 6 6 4 4 4 4 4 4													3272.00
3271.00	12 13 13 13 13 13 14 12 12 11 11 11 11 10 6 6 6 6 6 4 4 4 4 4 4													3271.00
3270.00	12 12 13 13 13 13 13 12 12 11 11 11 11 10 10 8 6 6 6 4 4 4 4 4 4													3270.00
3269.00	12 12 13 13 13 13 13 12 12 12 11 11 11 10 10 8 7 6 6 4 4 4 4 4 4													3269.00
3268.00	11 12 12 13 13 13 13 12 12 12 11 11 11 11 10 10 7 6 6 4 4 4 4 4 4													3268.00
3267.00	11 11 12 12 13 13 13 12 12 12 11 11 11 11 10 10 9 6 4 4 4 4 4 4 3													3267.00
3266.00	10 11 12 12 13 13 13 14 12 12 11 11 11 11 11 9 8 8 4 4 4 4 4 4 3													3266.00
3265.00	10 11 12 12 12 13 14 14 13 12 12 12 11 11 11 9 8 8 4 4 4 4 4 4 3													3265.00
3264.00	10 10 12 12 12 12 14 14 13 12 12 12 11 11 11 9 8 8 6 4 4 4 4 4 3													3264.00
3263.00	10 10 10 12 12 13 14 14 13 12 12 12 12 11 11 9 8 8 6 6 4 4 4 4 3													3263.00
3262.00	10 10 10 12 12 12 13 14 13 13 13 13 13 12 12 9 8 6 6 6 4 4 4 3 3													3262.00
3261.00	10 10 10 11 12 12 13 13 15 14 13 13 13 12 10 9 9 6 6 6 5 4 3 3 3													3261.00
3260.00	10 10 10 11 11 13 13 14 14 15 14 13 13 12 10 9 9 6 6 6 5 5 3 3 3													3260.00
3259.00	9 10 10 11 11 13 13 13 14 15 14 14 14 13 10 9 9 6 6 6 5 5 3 3 3													3259.00
3258.00	9 10 10 11 11 11 13 14 15 14 15 15 15 14 11 10 10 6 6 6 5 5 5 3 3													3258.00
3257.00	9 10 10 10 11 11 12 14 15 15 14 16 16 16 11 10 7 6 6 6 5 5 5 4 3													3257.00
3256.00	9 10 10 10 11 11 12 15 15 16 16 17 17 14 11 11 7 6 6 5 5 5 5 4 3													3256.00
3255.00	9 9 9 10 11 11 12 12 16 17 18 16 19 15 12 12 7 6 6 5 5 5 4 4 4													3255.00
3254.00	9 9 9 10 11 11 12 12 13 18 18 17 17 16 13 12 7 7 6 5 5 4 4 4 4													3254.00
3253.00	8 9 9 10 10 11 12 13 14 19 19 18 19 17 14 13 8 6 5 5 5 4 4 4 4													3253.00
3252.00	8 8 9 9 10 10 12 13 14 16 21 19 20 14 16 9 7 6 5 5 5 4 4 4 4													3252.00
3251.00	7 8 9 9 10 10 11 12 13 15 17 28 14 13 9 7 7 6 5 5 5 5 4 4 4													3251.00

3250.00		7	8	8	8	9	9	10	12	13	15	18	23	15	12	6	5	7	6	6	5	5	5	4	4	4	3250.00
	300.00		302.00		304.00		306.00		308.00		310.00		312.00		314.00		316.00		318.00		320.00		322.00		324.00		

SECTION 1 OF 1 RUN NUMBER 1, POLLUTANT 1 (SO2) ,CALIBRATED CONCENTRATIONS (PERCENT NAAQS) TCM-2 RURAL
EXAMPLE OF POINT SOURCES RUN ON TCM2 00020090

METEOROLOGY: HOUSTON HOBBY AIRPORT,1961-1969 00020180

	300.00	302.00	304.00	306.00	308.00	310.00	312.00	314.00	316.00	318.00	320.00	322.00	324.00	
3274.00	12 17 18 18 18 18 16 15 15 15 14 14 10 10 10 10 10 8 7 7 5 5 5 4 4	3274.00
3273.00	12 17 17 17 17 17 16 15 15 15 14 14 13 10 10 10 10 8 7 7 5 5 5 5 4	3273.00
3272.00	12 17 17 17 17 17 15 15 15 14 14 13 13 10 10 10 10 8 7 5 5 5 5 5 5	3272.00
3271.00	15 16 17 17 17 17 17 15 15 14 14 13 13 13 10 10 8 7 7 5 5 5 5 5 5	3271.00
3270.00	15 15 16 17 17 17 17 15 14 14 14 13 13 13 13 10 8 7 7 5 5 5 5 5 5	3270.00
3269.00	14 15 16 16 17 17 17 15 14 14 14 13 13 13 13 10 8 7 7 5 5 5 5 5 5	3269.00
3268.00	14 15 15 16 16 17 17 15 14 14 14 14 13 13 13 13 8 8 7 5 5 5 5 5 5	3268.00
3267.00	14 14 15 15 16 17 17 15 15 15 14 14 13 13 13 13 11 8 5 5 5 5 5 5 4	3267.00
3266.00	13 14 14 15 16 17 17 17 16 15 14 14 13 13 13 11 10 10 5 5 5 5 5 5 4	3266.00
3265.00	13 14 14 15 15 17 17 17 16 15 15 15 14 14 13 11 10 10 5 5 5 5 5 4 4	3265.00
3264.00	13 13 14 15 15 16 17 17 16 15 15 15 14 14 14 11 10 10 8 5 5 5 5 4 4	3264.00
3263.00	13 13 13 15 15 16 17 18 16 15 16 15 15 14 14 11 10 10 8 7 5 5 5 4 4	3263.00
3262.00	13 13 13 15 15 15 16 18 17 16 16 16 16 15 14 12 11 8 8 7 5 5 5 4 4	3262.00
3261.00	13 13 13 13 15 15 16 17 19 18 16 16 16 15 12 11 11 8 8 7 7 5 4 4 4	3261.00
3260.00	13 13 13 13 14 16 16 17 17 18 17 17 17 16 12 11 11 8 8 7 7 7 4 4 4	3260.00
3259.00	12 12 13 13 14 16 16 17 18 19 18 18 18 16 13 12 12 8 8 7 7 6 4 4 4	3259.00
3258.00	12 12 12 13 14 14 17 17 19 18 19 19 19 17 13 12 12 8 7 7 6 6 6 4 4	3258.00
3257.00	12 12 12 13 13 14 15 18 18 19 17 20 20 20 14 13 9 8 7 7 6 6 6 6 4	3257.00
3256.00	11 12 12 13 13 14 15 19 19 20 21 22 21 17 14 14 9 8 7 6 6 6 6 5 4	3256.00
3255.00	11 11 12 13 13 14 15 15 20 21 22 20 23 18 15 15 8 8 7 7 6 6 5 5 5	3255.00
3254.00	11 11 12 12 14 14 15 16 17 23 23 22 22 20 16 15 9 9 7 7 6 5 5 5 5	3254.00
3253.00	10 11 12 12 13 14 15 16 17 23 24 22 24 21 18 16 10 8 7 6 6 5 5 5 5	3253.00
3252.00	10 10 11 11 12 13 15 17 18 19 26 24 25 17 20 12 9 8 6 6 6 5 5 5 5	3252.00
3251.00	9 10 11 11 12 13 14 15 16 19 21 29 17 15 12 9 8 7 6 6 6 6 6 5 5	3251.00

3250.00		9	10	10	10	11	12	13	15	17	19	22	29	19	15	7	6	9	8	7	6	6	6	6	5	5	3250.00
	300.00	302.00	304.00	306.00	308.00	310.00	312.00	314.00	316.00	318.00	320.00	322.00	324.00														

SECTION 1 OF 1 RUN NUMBER 1, POLLUTANT 2 (PARTICULATE) ,UNCALIBRATED CONCENTRATIONS IN UG/M3 TCM-2 RURAL
EXAMPLE OF POINT SOURCES RUN ON TCM2 00020090

METEOROLOGY: HOUSTON HOBBY AIRPORT,1961-1969 00020100

	300.00	302.00	304.00	306.00	308.00	310.00	312.00	314.00	316.00	318.00	320.00	322.00	324.00	
3274.00	3 5 5 5 5 5	4 4 4 4 4 4	3 3 3 2 2 2	2 2 2 2 1 1	1 1 1 1 1	3274.00
3273.00	3 4 5 5 5 5	4 4 4 4 4 4	4 3 3 2 2 2	2 2 2 1 1 1	1 1 1	3273.00
3272.00	3 4 4 4 4 4	4 4 4 4 4 4	4 3 3 2 2 2	2 1 1 1 1 1	1 1 1	3272.00
3271.00	4 4 4 4 4 4	4 4 4 4 4 4	3 3 3 3 2 2	2 1 1 1 1 1	1 1 1	3271.00
3270.00	4 4 4 4 4 4	4 4 4 4 4 3	3 3 3 3 2 2	1 1 1 1 1 1	1 1 1	3270.00
3269.00	4 4 4 4 4 4	4 4 4 4 4 3	3 3 3 3 3 2	1 1 1 1 1 1	1 1 1	3269.00
3268.00	4 4 4 4 4 4	4 4 4 4 4 4	3 3 3 3 3 3	1 1 1 1 1 1	1 1 1	3268.00
3267.00	3 3 4 4 4 4	4 4 4 4 4 4	3 3 3 3 3 3	1 1 1 1 1 1	1 1 1	3267.00
3266.00	3 3 3 4 4 4	4 4 4 4 4 4	3 3 3 3 3 3	1 1 1 1 1 1	1 1 1	3266.00
3265.00	3 3 3 3 3 4	4 4 4 4 4 4	3 3 3 3 3 3	1 1 1 1 1 1	1 1 1	3265.00
3264.00	3 3 3 3 3 3	4 4 4 4 4 4	3 3 3 3 3 3	2 1 1 1 1 1	1 1 1	3264.00
3263.00	3 3 3 3 3 3	4 4 4 4 4 4	4 4 4 4 3 3	2 2 1 1 1 1	1 1 1	3263.00
3262.00	3 3 3 3 3 3	3 4 4 4 4 4	4 4 4 4 4 2	2 2 1 1 1 1	1 1 1	3262.00
3261.00	3 3 3 3 3 3	3 4 4 4 4 4	4 4 4 4 4 2	2 2 2 1 1 1	1 1 1	3261.00
3260.00	3 3 3 3 3 3	4 4 4 4 4 4	4 4 4 4 4 2	2 2 2 2 2 1	1 1 1	3260.00
3259.00	3 3 3 3 3 3	4 4 4 4 5 5	5 4 4 4 4 2	2 2 2 2 2 1	1 1 1	3259.00
3258.00	3 3 3 3 3 3	4 4 4 3 5 5	5 4 4 4 4 2	2 2 2 2 2 2	1 1 1	3258.00
3257.00	3 3 3 3 3 3	4 4 4 3 4 5	5 5 4 4 2 2	2 2 2 2 2 2	2 2 1	3257.00
3256.00	3 3 3 3 3 3	4 4 4 4 4 4	5 5 6 5 5 2	2 2 2 2 2 2	2 2 1	3256.00
3255.00	3 3 3 3 3 3	3 3 4 4 4 4	6 6 5 5 2 2	2 2 2 2 2 1	1 1 1	3255.00
3254.00	3 3 3 3 3 3	3 3 3 4 4 4	4 7 6 6 3 3	2 2 2 2 1 1	1 1 1	3254.00
3253.00	2 3 3 3 3 3	3 3 3 4 4 4	4 7 6 6 3 2	2 2 2 2 1 1	1 1 1	3253.00
3252.00	2 2 2 2 3 3	3 3 4 4 4 4	5 5 8 4 3 2	2 2 2 1 1 1	1 1 1	3252.00
3251.00	2 2 2 2 3 3	3 3 3 3 3 4	4 5 3 3 2 2	2 2 2 2 2 1	1 1 1	3251.00

3250.00		2	2	2	2	2	3	3	3	3	3	3	3	4	4	1	1	3	2	2	2	2	2	2	1	1	3250.00
	300.00		302.00		304.00		306.00		308.00		310.00		312.00		314.00		316.00		318.00		320.00		322.00		324.00		

SECTION 1 OF 1 RUN NUMBER 1, POLLUTANT 2 (PARTICULATE) ,CALIBRATED CONCENTRATIONS (PERCENT NAAQS) TCM-2 RURAL
00020090
EXAMPLE OF POINT SOURCES RUN ON TCM2
00020100
METEOROLOGY: HOUSTON HOBBY AIRPORT, 1961-1969

	300.00	302.00	304.00	306.00	308.00	310.00	312.00	314.00	316.00	318.00	320.00	322.00	324.00	
3274.00	4	6	6	6	6	6	6	6	5	5	5	5	3	3274.00
3273.00	4	6	6	6	6	6	5	5	5	5	5	5	5	3273.00
3272.00	4	6	6	6	6	6	5	5	5	5	5	5	5	3272.00
3271.00	5	6	6	6	6	6	6	5	5	5	5	5	5	3271.00
3270.00	5	5	6	6	6	6	6	5	5	5	5	5	5	3270.00
3269.00	5	5	6	6	6	6	6	5	5	5	5	5	5	3269.00
3268.00	5	5	5	6	6	6	6	5	5	5	5	5	5	3268.00
3267.00	5	5	5	5	6	6	6	5	5	5	5	5	5	3267.00
3266.00	5	5	5	5	6	6	6	6	5	5	5	5	5	3266.00
3265.00	4	5	5	5	5	6	6	6	5	5	5	5	5	3265.00
3264.00	4	4	5	5	5	5	6	6	5	5	5	5	5	3264.00
3263.00	4	4	4	5	5	5	6	6	5	5	5	5	5	3263.00
3262.00	4	4	4	4	5	5	5	6	5	5	6	6	6	3262.00
3261.00	4	4	4	4	5	5	5	5	6	6	6	6	6	3261.00
3260.00	4	4	4	4	5	5	5	5	5	6	6	6	6	3260.00
3259.00	4	4	4	4	5	5	5	5	5	6	6	6	6	3259.00
3258.00	4	4	4	4	5	5	5	5	5	5	6	6	7	3258.00
3257.00	4	4	4	4	4	5	5	5	5	5	5	7	7	3257.00
3256.00	4	4	4	4	4	4	5	5	5	5	5	7	7	3256.00
3255.00	4	4	4	4	4	4	4	4	5	5	5	5	8	3255.00
3254.00	4	4	4	4	4	4	4	4	5	5	5	5	6	3254.00
3253.00	3	4	4	4	4	4	4	4	5	5	5	6	6	3253.00
3252.00	3	3	3	3	3	4	4	4	5	5	5	5	6	3252.00
3251.00	3	3	3	3	3	3	4	4	4	4	5	5	6	3251.00

	300.00	302.00	304.00	306.00	308.00	310.00	312.00	314.00	316.00	318.00	320.00	322.00	324.00	
3274.00	4	6	6	6	6	6	6	6	5	5	5	5	3	3274.00
3273.00	4	6	6	6	6	6	5	5	5	5	5	5	5	3273.00
3272.00	4	6	6	6	6	6	5	5	5	5	5	5	5	3272.00
3271.00	5	6	6	6	6	6	6	5	5	5	5	5	5	3271.00
3270.00	5	5	6	6	6	6	6	5	5	5	5	5	5	3270.00
3269.00	5	5	6	6	6	6	6	5	5	5	5	5	5	3269.00
3268.00	5	5	5	6	6	6	6	5	5	5	5	5	5	3268.00
3267.00	5	5	5	5	6	6	6	5	5	5	5	5	5	3267.00
3266.00	5	5	5	5	6	6	6	6	5	5	5	5	5	3266.00
3265.00	4	5	5	5	5	6	6	6	5	5	5	5	5	3265.00
3264.00	4	4	5	5	5	5	6	6	5	5	5	5	5	3264.00
3263.00	4	4	4	5	5	5	6	6	5	5	5	5	5	3263.00
3262.00	4	4	4	4	5	5	5	6	5	5	6	6	6	3262.00
3261.00	4	4	4	4	5	5	5	5	6	6	6	6	6	3261.00
3260.00	4	4	4	4	5	5	5	5	5	6	6	6	6	3260.00
3259.00	4	4	4	4	5	5	5	5	5	6	6	6	6	3259.00
3258.00	4	4	4	4	5	5	5	5	5	5	6	6	7	3258.00
3257.00	4	4	4	4	4	5	5	5	5	5	5	7	7	3257.00
3256.00	4	4	4	4	4	4	5	5	5	5	5	7	7	3256.00
3255.00	4	4	4	4	4	4	4	4	5	5	5	5	8	3255.00
3254.00	4	4	4	4	4	4	4	4	5	5	5	5	6	3254.00
3253.00	3	4	4	4	4	4	4	4	5	5	5	6	6	3253.00
3252.00	3	3	3	3	3	4	4	4	5	5	5	5	6	3252.00
3251.00	3	3	3	3	3	3	4	4	4	4	5	5	6	3251.00

3250.00		3	3	3	3	3	3	4	4	4	4	5	4	5	6	2	2	4	3	3	2	2	2	2	2	2	3250.00
	300.00	302.00	304.00	306.00	308.00	310.00	312.00	314.00	316.00	318.00	320.00	322.00	324.00													

TEXAS CLIMATOLOGICAL MODEL - VERSION-2 (RURAL)

HIGHEST PREDICTED CONCENTRATIONS FOR EACH POLLUTANT FOR EACH SCENARIO

EXAMPLE OF POINT SOURCES RUN ON TCM2 00020090

RUN NUMBER	METEOROLOGY	
1	HOUSTON HOBBY AIRPORT, 1961-1965	00020180

UNCALIBRATED CONCENTRATIONS IN MICROGRAMS PER CUBIC METER

RUN NUMBER	POLLUTANT 1 CALIBRATION A 1	B 1		POLLUTANT 2 CALIBRATION A 2	B 2	
1	.0000	1.2500	PERCENT NAAQS	.0000	1.3333	PERCENT NAAQS

CALIBRATED CONC = A(I) + B(I)*CALCULATED CONC

RUN NUMBER	RECEPTOR COORDINATES X (KM)	Y (KM)	POLLUTANT 1 (SO2) UNCALIBRATED CONCENTRATION	CALIBRATED CONCENTRATION	RECEPTOR COORDINATES X (KM)	Y (KM)	POLLUTANT 2 (PARTICULATE) UNCALIBRATED CONCENTRATION	CALIBRATED CONCENTRATION
1	311.000	3251.000	23.5964	29.4955	314.000	3252.000	7.8619	10.4822

JBRKPT PRINT*

IBM 3800 PRINTOUT SUMMARY - UNIVAC TAPE SUPPORT USER ID. MBP

VOL. _ _ _ _ _ DSSN. 00001 DSNM. PRT
PAGES 00260 FEET 00238